FFFFFFFFFFFFFFFFFFFF	00000000 00000000 00000000	RRRRRRRRRRRR RRRRRRRRRRRR RRRRRRRRRRRR	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	LLL
FFF	000 000		RRR RRR	TTT	III
FFF	000 000		RRR RRR	TTT	LLL
FFF	000 000	RRR RRR	RRR RRR	TTT	LLL
FFF	000 000		RRR RRR	TTT	LLL
FFF	000 000	RRR RRR	RRR RRR	TTT	LLL
FFF	000 000	RRR RRR	RRR RRR	III	LLL
FFFFFFFFFF	000 000		RRRRRRRRRRR	III	LLL
FFFFFFFFFF	000 000	RRRRRRRRRRR	RRRRRRRRRRR	III	LLL
FFFFFFFFFF	000 000		RRRRRRRRRRR	III	LLL
FFF	000 000		RRR RRR	III	LLL
FFF	000 000		RRR RRR	III	LLL
FFF	000 000		RRR RRR	III	rrr
FFF	000 000	RRR RRR	RRR RRR	III	LLL
FFF	000 000		RRR RRR	III	LLL
FFF	000 000		RRR RRR	III	LLL
FFF	00000000	RRR RRR	RRR RRR	III	LLLLLLLLLLLLLLLL
FFF	00000000	RRR RRR	RRR RRR	III	LLLLLLLLLLLLLLLL
FFF	00000000	RRR RRR	RRR RRR	TTT	LLLLLLLLLLLLLLL

FC

....

::::

FFFFFFFFF FF FF FF FF FF FF FF FF FF FF	000000 00 00 00 00	RRRRRRRR RR RR RR RR RR RR RR RR RRRRRRR	000000 00 00 00 00	PPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPPP	NN	DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
		\$				

MODULE FOR\$\$OPEN\_DEFLT (%TITLE 'FORTRAN default open' | File: FOROPENDE.B32 Edit: LEB1098

BEGIN

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FACILITY: FORTRAN Support Library - not user callable

ABSTRACT:

This module contains a routine to perform default file opening for FORTRAN programs.

ENVIRONMENT: User access mode; mixture of AST level or not.

AUTHOR: Thomas N. Hastings, CREATION DATE: 6-Mar-77; Version O

MODIFIED BY:

Thomas N. Hastings, 15-Mar-77: Version 0
[Previous edit history removed. SBL 5-Oct-1982]
1-078 - Add support for DEFAULTFILE=string. JAW 30-Jun-1981
1-079 - Increase default value of RECL for unformatted variable-length records from 126 to 2046, to improve performance when RECORDIYPE='SEGMENTED'. JAW 17-Jul-1981
1-080 - Fix logic error in record type check made when user does not specify record type for an old file. (Allowed both FIXED and SEGMENTED to be set simultaneously.) JAW 25-Aug-1981
1-081 - Change algorithm for determining the length of a list-directed output record: use RECL if specified, else 80/81 depending on carriage control. JAW 26-Aug-1981
1-082 - Add test for blocksize less than recordsize (made only if open or create fails and device is mag tape). If so, signal INCRECLEN since RMS does not give a useful message in this

F

1.

FI.

Page

FC 1-

FC

(3)

```
FOR$$OPEN_DEFLT FORTRAN default open 1-098
                                                                                                                                          VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FOROPENDE.B32:1
                                                                                                    16-Sep-1984 00:37:00
14-Sep-1984 12:32:16
                                                                                                                                                                                                   Page
                                                                                                                                                                                                           (3)
    203456789001234567890123456
                         0265
02667
022689
0227777789
0228867
0228867
022889
                                                  OPEN : VECTOR [OPEN$K_KEY_MAX + 1];
                                                                                                                ! OPEN parameter array
                                            ! Clear OPEN parameter array
                                            CHSFILL (O, (OPENSK_KEY_MAX + 1) + %UPVAL, OPEN);
                                            ! Setup count, ACCESS, TYPE, and FORM parameter values
                                           OPEN [OPEN$K_ACCESS] = .ACCESS_VAL;
OPEN [OPEN$K_TYPE] = .TYPE_VAL;
OPEN [OPEN$K_FORM] = .FORM_VAL;
                                              Perform the OPEN - call common procedure with a pointer
                                             to the OPEN parameter VECTOR of longword values.
                                            FOR$SOPEN_PROC (OPEN);
                                            RETURN:
                                            END:
                                                                                                                 ! End of FORSOPEN_DEFLT routine
                                                                                                                                FOR$$OPEN_DEFLT FORTRAN default open \1-098\
                                                                                                                    .TITLE
                                                                                                                               FOR$SERR OPECLO
FOR$$SIGNAL_STO
FOR$$SIGNO_LUB
FOR$$CB_PUSH, FOR$$CB_POP
FOR$$GET_VM, FOR$$FREE_VM
FOR$$SIG_FATINT
FOR$$DECL_EXITH
FOR$$L_XIT_LOCK
                                                                                                                    .EXTRN
                                                                                                                     .EXTRN
                                                                                                                     .EXTRN
                                                                                                                     .EXTRN
                                                                                                                     .EXTRN
                                                                                                                     .EXTRN
                                                                                                                    .EXTRN
                                                                                                                    .PSECT
                                                                                                                                _FOR$CODE,NOWRT, SHR, PIC,2
                                                                                                                                FOR$$OPEN_DEFLT, Save R2,R3,R4,R5
-108(SP), SP
#0, (SP), #0, #108, OPEN
                                                                                                                                                                                                         0208
                                                                                                                     .ENTRY
                                                                                                                    MOVAB
MOVC5
                                                                                   AE
00
6E
AC
AC
SE
01
      0060
                                       00
                                                                                                                                                                                                         0272
                                                                                              0000E
00013
00018
0001D
                                                                                                                                                                                                         0278
0279
0280
0287
                                                                                                                                ACCESS_VAL, OPEN+16
TYPE_VAL, OPEN+60
FORM_VAL, OPEN+20
                                                             AE
AE
                                                                           04
08
00
                                                     10
30
14
                                                                                         00000B4
                                                                                                                    MOVL
                                                                                                                    MOVL
                                                                                                                    MOVL
                                                                                                                    PUSHL
                                                  0000V
                                                                                                                                #1, FOR$SOPEN_PROC
                                                                                                                    CALLS
                                                                                                                    RET
                                                                                                                                                                                                         0289
; Routine Size: 37 bytes.
                                               Routine Base: _FOR$CODE + 0000
```

: 227

0290 1

or LUB\$K\_ORG\_RELAT.

FC

1-

Page

```
FOR$$OPEN_DEFLT FORTRAN default open 1-098
                                                                                                                                                              16-Sep-1984 00:37:00
14-Sep-1984 12:32:16
                                                                                                                                                                                                                         VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FOROPENDE.B32:1
                                                                                                                                                                                                                                                                                                                   Page
      COMPLETION STATUS:
                                                                               NONE
                                                                SIDE EFFECTS:
                                                                             SIGNAL STOPS the following errors:

FORS FILNOTFOU (29 = 'FILE NOT FOUND')

FORS OPEFAI (30 = 'OPEN FAILURE')

FORS INCRECLEN (37 = 'INCONSISTENT RECORD LENGTH')

FORS INSVIRMEM (41 = 'INSUFFICIENT VIRTUAL MEMORY)

FORS NO SUCDEV (42 = 'NO SUCH DEVICE')

FORS FILNAMSPE (43 = 'FILE NAME SPECIFICATION ERROR')

FORS RECSPEERR (44 = 'RECORD SPECIFICATION ERROR')

FORS KEYVALERR (45 = 'KEYWORD VALUE ERROR IN OPEN STATEMENT')

FORS INCOPECLO (46 = 'INCONSISTENT OPEN/CLOSE ARGUMENTS')

FORS INVARGEOR (47 = 'INVALID ARGUMENT TO FORTRAN I/O LIBRARY')
                                                      1 !--
                                                                     BEGIN
                                                                     EXTERNAL REGISTER
                                                                               CCB : REF $FOR$CCB_DECL;
                                                                               OPEN_ADR : REF VECTOR [OPEN$K_KEY_MAX + 1];
                                                                  V DEFAULT SIZE,

OPEN STATUS,

T_DFET_FILE_NAM : VECTOR [10, BYTE],
                                                                                                                                                                                       RMS status returned on SOPEN or SCREATE
                                                                                                                                                                                       10-byte default filename string Form: FORnnn.DAT
                                                                              ORIG_RAT: BYTE,

XAB_BLOCK: BLOCK [XAB$C_FHCLEN, BYTE], ! allocate local_FHC XAB_BLOCK

KEY_XAB: REF_BLOCK [OPEN$K_XAB_SIZE, BYTE], ! ISAM key XAB

TEMP_FNS: VECTOR [NAM$C_MAXRSS, BYTE], ! Temp_filespec_for_ASSIGN

RES_OR_EXP_NAME: VECTOR [NAM$C_MAXRSS, BYTE]; ! Storage for resultant or expanded name string
                                                                              FAB = CCB: REF $FOR$FAB_CCB_STRUCT,
NAM = CCB: REF $FOR$NAM_CCB_STRUCT,
A_SYS$INPUT = UPLIT BYTE('SYS$INPUT:'),
A_SYS$OUTPUT = UPLIT BYTE('SYS$OUTPUT:');
                                                                                                                                                                                  ! FAB is after RAB in CCB ! NAM is after FAB in CCB
                                                                     BUILTIN
                                                                               TESTBITSC:
                                                                     LITERAL
                                                                               L_SYS$INPUT = %CHARCOUNT ('SYS$INPUT:');
L_SYS$OUTPUT = %CHARCOUNT ('SYS$OUTPUT:');
                                                                         See if ASSIGN or FDBSET has already allocated us a FAB. If so, copy it to our local FAB and deallocate it. Copy the filename too if it's there.
```

1

FAB [FAB\$V\_DFW] = 1;

FC

Page

(5)

```
FOR$$OPEN_DEFLT FORTRAN default open 1-098
                                                                                                                                                               16-Sep-1984 00:37:00
14-Sep-1984 12:32:16
                                                                                                                                                                                                                         VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FOROPENDE.B32:1
                                                                                                                                                                                                                                                                                                                   Page
                                                                                         FAB [FAB$B_FNS] = %CHARCOUNT ('FOR$TYPE:');
FAB [FAB$L_FNA] = UPLIT BYTE('FOR$TYPE:');
A_DEF_LOGNAM = A_SYS$OUTPUT;
L_DEF_LOGNAM = L_SYS$OUTPUT;
                                      [LUB$K_LUN_PRIN]:
    BEGIN
    FAB [FAB$B_DNS] = %CHARCOUNT ('FORPRINT.DAT');
    FAB [FAB$L_DNA] = UPLIT BYTE('FORPRINT.DAT');
    FAB [FAB$B_FNS] = %CHARCOUNT ('FOR$PRINT:');
    FAB [FAB$L_FNA] = UPLIT BYTE('FOR$PRINT:');
    A_DEF_LOGNAM = A_SYS$OUTPUT;
    L_DEF_LOGNAM = L_SYS$OUTPUT;
    END:
                                                                                                                                                                                  ! PRINT statement (therefore default open)
                                                                               [OUTRANGE] :
                                                                                                                                                                                  ! Some other statement (OPEN or default OPEN)
                                                                                         BEGIN
                                                                                         IF .OPEN_ADR [OPEN$K_NAME] EQLA O OR .OPEN_ADR [OPEN$K_DEFAULTF] EQLA O
                                                                                                   BEGIN
                                                                                                  BEGIN
T DFLT FILE NAM
                                                                                                                                         [0] = %C'F';

[1] = %C'O';

[2] = %C'R';

[3] = ((.CCB

[4] = ((.CCB

[5] = ((.CCB

[6] = %C'.';

[7] = %C'D';

[8] = %C'A';

[9] = %C'T';
                                                                                                                                                                          [LUB$W_LUN]/100) MOD 10) + %C'0';
[LUB$W_LUN]/10) MOD 10) + %C'0';
[LUB$W_LUN]) MOD 10) + %C'0';
                                                                                             DEFAULTFILE
                                                                                             Set up default file name string to be used in RMS $OPEN
                                                                                                .OPEN_ADR [OPEN$K_DEFAULTF] NEQA O
                                                                                                   BEGIN
                                                                                                   LOCAL
                                                                                                  NAM_DSC : REF BLOCK [8, BYTE];
NAM_DSC = .OPEN_ADR [OPEN$K_DEFAULTF];
IF .NAM_DSC [DSC$W_LENGTH] GTRU 255 THEN $FOR$$SIGNAL_STO (FOR$K_FILNAMSPE);
FAB [FAB$B_DNS] = .NAM_DSC [DSC$W_LENGTH];
FAB [FAB$L_DNA] = .NAM_DSC [DSC$A_POINTER];
                                                                                                   END
                                                                                         ELSE
                                                                                             Default file name not specified in OPEN or this is default OPEN.
                                                                                                  FAB [FAB$B_DNS] = %CHARCOUNT ('FORnon.DAT');
```

```
FOR$$OPEN_DEFLT FORTRAN default open 1-098
                                                                                          16-Sep-1984 00:37:00
14-Sep-1984 12:32:16
                                                                                                                           VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FOROPENDE.B32:1
                                                                                                                                                                                     (5)
                                                                                                                                                                               Page
    FAB [FAB$L_DNA] = T_DFLT_FILE_NAM;
                      Setup file name string to be used in RMS SOPEN
                                                   IF .OPEN_ADR [OPEN$K_NAME] NEQA O
                                                   THEN
                                                        BEGIN
                                                          file name specified in OPEN
Set length and address in FAB
                                                        LOCAL
                                                              NAM_DSC : REF BLOCK [8, BYTE];
                                                                                                                ! File name descriptor
                                                        NAM_DSC = .OPEN_ADR [OPEN$K_NAME];
                                                                                                                ! Get descriptor
                                                        IF .NAM_DSC [DSC$W_LENGTH] GTRU 255 THEN $FOR$$SIGNAL_STO (FOR$K_FILNAMSPE);
                                                        FAB [FAB$B_FNS] = .NAM_DSC [DSC$W_LENGTH];
FAB [FAB$L_FNA] = .NAM_DSC [DSC$A_POINTER];
                      0581
0582
0583
05883
05886
05886
05886
05889
05890
05896
05899
05996
0606
0606
0606
0608
0608
0611
                                                        END
                                                  ELSE
                                                   ! File name not specified in OPEN or this is default OPEN.
                                                     If name not already setup (CALL ASSIGN), use all but last 4 characters of default filename str i.e., all characters but .DAT
                                                     Thus filename string is a string with no punctuation so it can be a logical name
                                                        IF .FAB [FAB$L_FNA] EQLA O
                                                        THEN
                                                              BEGIN
                                                             FAB [FAB$B_FNS] = %CHARCOUNT ('FORnon');
FAB [FAB$L_FNA] = T_DFLT_FILE_NAM;
                                                                If this is unit 5 or 6, set up default logical name to use if translation of FOR005 or FOR006
                                                                fails.
                                                              IF .CCB [LUB$W_LUN] EQL 5
                                                                   BEGIN
A_DEF_LOGNAM = A_SYS$INPUT;
L_DEF_LOGNAM = L_SYS$INPUT;
END
                                                              ELSE
```

```
K 9
16-Sep-1984 00:37:00
14-Sep-1984 12:32:16
FOR$$OPEN_DEFLT FORTRAN default open 1-098
                                                                                                                                                                   VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FOROPENDE.B32:1
                                                                                                                                                                                                                                     Page 12 (5)
                             IF .CCB [LUB$W_LUN] EQL 6
     THEN
                                                                                               BEGIN
A_DEF_LOGNAM = A_SYS$OUTPUT;
L_DEF_LOGNAM = L_SYS$OUTPUT;
                                                                                 END:
                                                                   END:
                                                                                                                                      ! End OUTRANGE expression
                                                           TES:
                                                       If we have an implicit logical name assignment possible (unit<0 or unit=5 or unit=6) then attempt translation of the logical name. If it fails, then substitute the default
                                                        logical name SYS$INPUT: or SYS$OUTPUT: appropriately.
                                                    IF .A_DEF_LOGNAM NEQ O
                                                    THEN
                                                           BEGIN
                                                           LOCAL
                                                                  LOGNAM_DSC : DSC$DESCRIPTOR, RESULT_DSC : DSC$DESCRIPTOR;
                                                                                                                                        Logical name descriptor
                                                                                                                                        Translation result descriptor
                                                          LOGNAM_DSC [DSC$B_CLASS] = DSC$K_CLASS_S;
LOGNAM_DSC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
RESULT_DSC [DSC$B_CLASS] = DSC$K_CLASS_S;
RESULT_DSC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
RESULT_DSC [DSC$W_LENGTH] = NAM$C_MAXRSS;
RESULT_DSC [DSC$W_LENGTH] = RES_DR_EXP_NAME;
LOGNAM_DSC [DSC$A_POINTER] = .FAB_[FAB$C_FNA];
LOGNAM_DSC [DSC$W_LENGTH] = .FAB_[FAB$B_FNS];
                                                                                                                                                    ! Scratch string
                                                           IF .CCB [LUB$W_LUN] LSS 0
                                                           THEN
                                                              Don't translate trailing colon.
                                                                  LOGNAM_DSC [DSC$W_LENGTH] = .LOGNAM_DSC [DSC$W_LENGTH] - 1;
                                                              Attempt to translate the logical name, putting the result in RES_OR_EXP_NAME. We don't care what it translated to, just the fact that it does translate. If it does not, then substitute
                                                               the default logical name for the file name.
                                                           IF $TRNLOG (LOGNAM = LOGNAM_DSC, RSLBUF = RESULT_DSC) EQLU SS$_NOTRAN
                              0665
                                                           THEN
                                                                  BEGIN

FAB [FAB$L_FNA] = .A_DEF_LOGNAM;

FAB [FAB$B_FNS] = .L_DEF_LOGNAM;
                              0667
0668
```

Page 13 (5)

.....

F

Page 14 (6)

IF .CCB [LUB\$V\_READ\_ONLY]

Page 15

FI

! <BLF/PAGE>

(8) Page

```
VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FOROPENDE.B32:1
DISPOSE
                                      Set bits in LUB to indicate DISPOSE parameters. Do not allow deletion of READONLY or SCRATCH files, printing or submitting of SCRATCH files.
                                 SELECT . OPEN_ADR [OPEN$K_DISPOSE] OF
                                      : [0]
                                                                                            ! ommitted, do nothing
                                      [OPEN$K_DIS_SAV] :
                                                                                            ! DISPOSE = 'SAVE'
                                            IF .CCB [LUB$v_SCRATCH] THEN $FOR$$SIGNAL_STO (FOR$K_INCOPECLO);
                                      [OPENSK_DIS_DEL, OPENSK_DIS_PRDE, OPENSK_DIS_SUDE] : ! DISPOSE = 'DELETE', 'PRINT/DELETE', 'SOBMIT/DELETE'
                                            BEGIN
                                            IF .CCB [LUB$V_READ_ONLY]
                                            THEN
                                            SFORSSSIGNAL_STO (FORSK_INCOPECLO);
CCB [LUB$V_DELETE] = 1;
                                            END:
                                      [OPEN$K_DIS_PRI, OPEN$K_DIS_PRDE] : ! DISPOSE = 'PRINT', 'PRINT/DELETE'
                                            BEGIN
                                            IF .CCB [LUB$V_SCRATCH] THEN $FOR$$SIGNAL_STO (FOR$K_INCOPECLO);
                                            CCB [LUB$V_PRINT] = 1;
                                            END:
                                      [OPEN$K_DIS_SUB, OPEN$K_DIS_SUDE] : ! DISPOSE = 'SUBMIT', 'SUBMIT/DELETE'
                                            BEGIN
                                            IF .CCB [LUB$V_SCRATCH]
                                                 $FOR$$SIGNAL_STO (FOR$K_INCOPECLO)
                                            ELSE
                                                 CCB [LUB$V_SUBMIT] = 1;
                                            END:
                                      [OTHERWISE] :
                                            $FOR$$SIGNAL_STO (FOR$K_INVARGFOR);
                                      TES:
```

! < BLF / PAGE >

Page 19 (10)

G 10 16-Sep-1984 00:37:00 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:32:16 [FORRTL.SRC]FOROPENDE.B32:1 FOR\$\$OPEN\_DEFLT FORTRAN default open 1-098 TES; SFORSSSIGNAL\_STO (FORSK\_INVARGEOR); 0964 2 0965 2 TES: 0966 2 0967 2 !<BLF/PAGE>

```
J 10
16-Sep-1984 00:37:00
14-Sep-1984 12:32:16
FOR$$OPEN_DEFLT FORTRAN default open 1-098
                                                                                                        VAX-11 Bliss-32 V4.0-742
LFORRTL.SRCJFOROPENDE.B32:1
 RECORDTYPE continued
                                   We now have enough information to determine the initial recordtype
                                   if it was omitted.
                                 IF .OPEN_ADR [OPEN$K_RECORDTY] EQL O
                                      IF .FAB [FAB$B_ORG] EQL FAB$C_REL OR .FAB [FAB$B_ORG] EQL FAB$C_IDX OR .CCB [LUB$V_DIRECT] OR .CCB [
                                               LUB$V_REYED]
                                      THEN
                                          BEGIN

FAB [FAB$B_RFM] = FAB$C_FIX;

CCB [LUB$V_FIXED] = 1;
                                          END
                                      ELSE
                                          BEGIN
FAB [FAB$B_RFM] = FAB$C_VAR;
                   1078
                   1079
                                          IF .CCB [LUB$V_UNFORMAT] THEN CCB [LUB$V_SEGMENTED] = 1;
                   1080
1081
1082
1083
                                          END:
                   1084
1085
1086
1087
1088
1089
1090
1091
1092
1093
                                   If SHARED, indicate user provided record interlock (UPI) (for SEQUENTIAL ORG only)
                                   If not SHARED, RMS defaults is read, sharing only if READONLY, else no sharing.
                                 IF .OPEN_ADR [OPEN$K_SHARED]
                                 THEN
                                     FAB [FAB$B_SHR] = FAB$M_SHRGET + FAB$M_SHRPUT + FAB$M_SHRUPD + FAB$M_SHRDEL;
                   1094
                                      IF NOT .CCB [LUB$V_NOTSEQORG]
                                                                                     ! Sequential only, set UPI
                   1095
                   1096
                                          FAB [FAB$V_UPI] = 1;
                   1097
                   1098
                                      END:
                   1099
                   1100
                            ! <BLF/PAGE>
```

```
FOR$$OPEN_DEFLT FORTRAN default open 1-098
                                                                                                                                            VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FOROPENDE.B32;1
  1106
                                                          BEGIN
                                                        LOCAL SIZE;
   1108
                                                         SIZE = .KEY_DEFN [OPEN$L_KEY_HI] - .KEY_DEFN [OPEN$L_KEY_LO] + 1;
                                                          IF .SIZE GTR 255 THEN $FOR$$SIGNAL_STO (FOR$K_INVKEYSPE);
                                                          .SIZE
                                                          END:
                                                          KEY_XAB
                                                                      [OPEN$W_POSO] = .KEY_XAB [XAB$W_POSO];
[OPEN$B_SIZO] = .KEY_XAB [XAB$B_SIZO];
[XAB$B_DTP] = (SELECTONE .KEY_DEFN [OPEN$B_DTYPE] OF
  1120
1121
1122
1123
1124
1126
1127
1128
1130
1131
1133
1138
1139
                                                                [O, DSC$K_DTYPE_T] : XAB$C_STG;
[DSC$K_DTYPE_WU] : XAB$C_BN2;
[DSC$K_DTYPE_W] : XAB$C_IN2;
[DSC$K_DTYPE_LU] : IF .REY_XAB [XAB$B_SIZ0] EQL 4 THEN XAB$C_BN4 ELSE XAB$C_BN2;
[DSC$K_DTYPE_L] : IF .REY_XAB [XAB$B_SIZ0] EQL 4 THEN XAB$C_IN4 ELSE XAB$C_IN2;
[DSC$K_DTYPE_L] : IF .REY_XAB [XAB$B_SIZ0] EQL 4 THEN XAB$C_IN4 ELSE XAB$C_IN2;
                                                                      BEGIN
$FOR$$SIGNAL_STO (FOR$K_INVARGEOR);
                                                         KEY_XAB [OPEN$B_KTYPE] = .KEY_XAB [XAB$B_DTP];
                                                          IF .KEY_NUM NEQ 0
                                                          THEN
                                                                BEGIN
                                                                KEY_XAB [XAB$V_CHG] = 1;
KEY_XAB [XAB$V_DUP] = 1;
   1140
                                                         KEY_XAB [XAB$B_REF] = .KEY_NUM;
KEY_DEFN = .KEY_DEFN + (3*ZUPVAL); ! Go to next definition
   1141
                                                   END;
   1148
                                                      If user specifies BLANK='NULL' then set LUB$V_NULLBLNK
                                                      else leave it alone.
                                            CASE .OPEN_ADR [OPEN$K_BLANK] FROM 0 TO OPEN$K_BLK_NUL OF
   1155
                                                   [O, OPEN$K_BLK_ZER] :
  1156
1157
                                                                                                                   ! Do nothing, ZERO is the default
                                                   [OPEN$K_BLK_NUL] : CCB [LUB$V_NULLBLNK] = 1;
   1158
   1159
   1160
   1161
                                                   [OUTRANGE] :
  1162
                                                         $FOR$$SIGNAL_STO (FOR$K_INVARGFOR);
```

FOR\$\$OPEN\_DEFLT FORTRAN default open 1-098

M 10 16-Sep-1984 00:37:00 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:32:16 [FORRTL.SRC]FOROPENDE.B32;1

Page 27 (14)

: 1163 : 1164 : 1165

[1 TO 32767] : BEGIN

ELSE

133); V\_DEFAULT\_SIZE = 1; END;

LOCAL

T = .OPEN\_ADR [OPEN\$K\_RECORDSI]\*(If .CCB [LUB\$V\_UNFORMAT] THEN %UPVAL ELSE 1) + (IF .CCB [LUB\$V\_SEGMENTED] THEN 2 ELSE 0);

variable

! user took the default

! formatted or unspecified (ENDFILE default open)

IF .T GTRU 32767 THEN \$FOR\$\$SIGNAL\_STO (FOR\$K\_INCRECLEN);

Page (15)

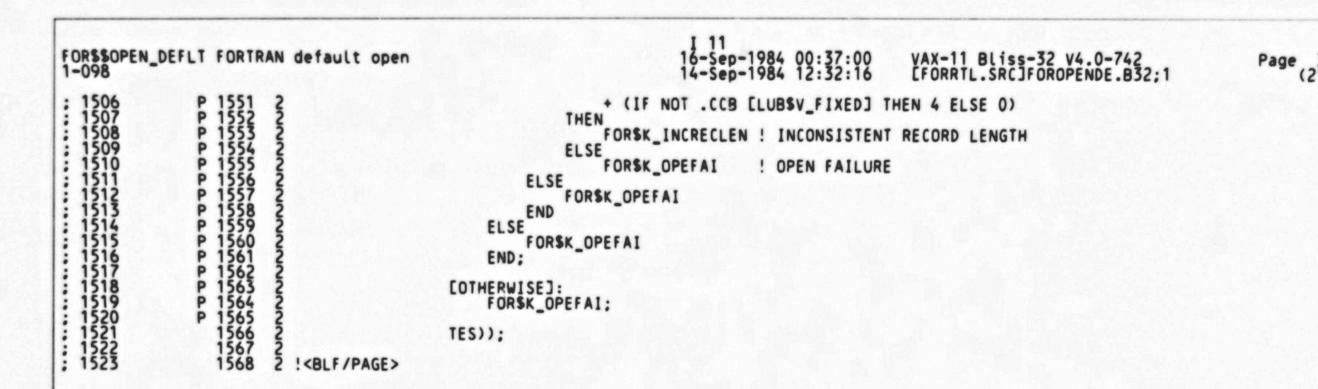
Page 30 (16)

Page 31 (17)

! <BLF/PAGE>

! <BLF / PAGE >

IF .FAB [FAB\$W\_BLS] LSSU .CCB [LUB\$W\_RBUF\_SIZE]



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If the file we just opened was an existing file, perform a couple of
                                     consistency checks.
                                   IF .CCB [LUB$V_OLD_FILE]
THEN
                                        BEGIN
                                          Organization check:
                                          If user program did not specify organization with this OPEN, use the attributes from the file. If the user program did specify,
                                          check that it agrees with the file.
                                        IF .OPEN_ADR [OPEN$K_ORGANIZA] NEQ O
                                        THEN
                                             BEGIN
                                             LOCAL T;
                                             T = (CASE .OPEN_ADR [OPEN$K_ORGANIZA] FROM OPEN$K_ORG_SEQ TO OPEN$K_ORG_IDX OF
  [OPENSK_ORG_SEQ] : FABSC_SEQ;
[OPENSK_ORG_REL] : FABSC_REL;
[OPENSK_ORG_IDX] : FABSC_IDX;
[OUTRANGE] :
                    1600
                    1601
                                                       $FOR$$SIGNAL_STO (FOR$K_INVARGFOR);
                                                       END:
                                                  TES):
                    1604
                                             IF .T NEQ .FAB [FAB$B_ORG] THEN $FOR$$SIGNAL_STO (FOR$K_INCFILORG);
                    1607
1608
1609
                                             END:
                    1610
                                          If ACCESS='KEYED' was specified and the file is not indexed,
                                          signal an error.
                    1614
                                        IF (.CCB [LUB$V_KEYED] AND .FAB [FAB$B_ORG] NEQ FAB$C_IDX) OR (.CCB [LUB$V_DIRECT] AND .FAB [
                                                  FAB$B_ORG] EQL FAB$C_IDX)
                                             $FOR$$SIGNAL_STO (FOR$K_INCFILORG);
                    1618
                              ! If the file does not have sequential organization, then set LUB bit.
                                        IF (.FAB [FAB$B_ORG] NEQ FAB$C_SEQ) THEN CCB [LUB$V_NOTSEQORG] = 1;
                              ! <BLF/PAGE>
```

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                                              Record type check:
                                             If user-program did not specified record-type in this OPEN, use the file attributes. If user-program did specify this OPEN, check that it agrees with the file.
                                           CASE .OPEN_ADR [OPEN$K_RECORDTY] FROM O TO OPEN$K_REC_STMLF OF
                                                 [0]
                                                                                                     ! User did not specify
                                                      BEGIN

CCB [LUB$V_FIXED] = 0;

CCB [LUB$V_SEGMENTED] = 0;
                                                                                                     ! Clear previously set bits
                                                       IF .FAB [FAB$B_RFM] EQL FAB$C_FIX
                                                            CCB [LUB$V_FIXED] = 1
                                                                                                    ! Fixed
                                                      ELSE
                                                                                                     ! Variable
                                                            IF .CCB [LUB$V_DIRECT] AND NOT .CCB [LUB$V_NOTSEGORG]
                                                            SFORSSSIGNAL STO (FORSK INCRECTYP);

IF NOT .CCB [LUBSV_NOTSEGORG] AND .CCB [LUBSV_UNFORMAT] AND NOT .CCB [LUBSV_DIRECT] AND (.FAB [FABSB_RFM] EQL FABSC_VAR)
1611
1612
1613
                                                                  CCB [LUB$V_SEGMENTED] = 1;
                                                            END:
                                                      END:
1614
1615
                                                 [OPEN$K_REC_FIX] :
1616
1617
1618
                                                      IF .FAB [FAB$B_RFM] NEQU FAB$C_FIX THEN $FOR$$SIGNAL_STO (FOR$K_INCRECTYP);
1619
                                                 [OPEN$K_REC_VAR] :
1620
1621
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                                                       IF .FAB [FAB$B_RFM] NEQU FAB$C_VAR AND .FAB [FAB$B_RFM] NEQU FAB$C_VFC
                                                            $FOR$$SIGNAL_STO (FOR$K_INCRECTYP);
                                                 [OPEN$K_REC_SEGM] :
                                                       IF (.FAB [FAB$B_RFM] NEQU FAB$C_VAR) OR .CCB [LUB$V_NOTSEQORG]
                                                            $FOR$$SIGNAL_STO (FOR$K_INCRECTYP);
                                                 [OPEN$K_REC_STM] :
                                                       IF .FAB [FAB$B_RFM] NEQU FAB$C_STM
                                                            $FOR$$SIGNAL_STO (FOR$K_INCRECTYP);
1636
1637
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1639
                                                 [OPEN$K_REC_STMCR] :
                    1681
1682
                                                       IF .FAB [FAB$B_RFM] NEQU FAB$C_STMCR
```

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| The composition of the composi
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Record size check:
                                                        If user specified a record size (with DEFINE FILE or RECORDSIZE OPEN keyword, and MRS was required by RMS (fixed or relative), or organization indexed and MRS is non-zero, then they must agree. The recordsize the OTS will use is then computed in a reasonable
                                                        manner.
                                                If not a disk or terminal, use the blocksize as the maximum recordsize
                                                (if not there already).
                                             IF (NOT .BLOCK [FAB [FAB$L_DEV], DEV$V_RND;4, BYTE]) AND (NOT .BLOCK [FAB [FAB$L_DEV], DEV$V_TRM;4, BYTE])
                                                   IF .FAB [FAB$W_MRS] EQL 0
                                                   THEN
                                                        FAB [FAB$W_MRS] = .FAB [FAB$W_BLS];
                                             IF NOT .V_DEFAULT_SIZE AND (.CCB [LUB$V_FIXED]
OR .FAB [FAB$B_ORG] EQL FAB$C_REL)
                                                   IF .CCB [LUB$W_RBUF_SIZE] NEQU .FAB [FAB$W_MRS] THEN $FOR$$SIGNAL_STO (FOR$K_INCRECLEN);
  1694
   1695
                                             IF (.CCB [LUB$V_FIXED]
   1696
                                                OR .FAB [FAB$B_ORG] EQL FAB$C_REL)
   1697
                                             THEN
  1698
                                                   CCB [LUB$W_RBUF_SIZE] = .FAB [FAB$W_MRS]
   1699
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1701
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1703
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1713
                                             ELSE
                                                  CCB [LUB$W_RBUF_SIZE] = MAXU (.CCB [LUB$W_RBUF_SIZE], .FAB [FAB$W_MRS], .XAB_BLOCK [XAB$W_LRL]);
                                             IF (.FAB [FAB$B_ORG] EQLU FAB$C_IDX) AND (NOT .CCB [LUB$V_FIXED])
                                    For variable indexed files, determine if the MRS is zero. If it is, this is an ISAM file created prior to FORTRAN V3 and should not be checked for buffer size agreement.
                                    If no explicit RECL was specified, use the bucketsize to compute the buffersize.
                                                   IF .FAB [FAB$W_MRS] EQLU 0
                                                   THEN
                                                        BEGIN
                                                         IF .V_DEFAULT_SIZE
                                                        THEN
                                                              CCB [LUB$W_RBUF_SIZE] = .FAB [FAB$B_BKS] * 512;
                       1760
                                    This is a new ISAM file. Check to be sure that the buffer size requested does
                                    not exceed the Max Recordsize specified when the file was created. Set the
                                    buffer size to the MRS to allow the records to grow.
                                                        IF NOT . V_DEFAULT_SIZE AND
                                                                  (.CCB [LUB$W_RBUF_SIZE] GTRU .FAB [FAB$W_MRS])
```

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B 12
16-Sep-1984 00:37:00
14-Sep-1984 12:32:16
FOR$$OPEN_DEFLT FORTRAN default open 1-098
                                                                                                                                                                   VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FOROPENDE.B32;1
                                                                                  NEXT = .KEY_XAB [XAB$L_NXT];
FOR$$FREE_VM (OPEN$K_XAB_SIZE, .KEY_XAB);
KEY_XAB = .NEXT;
END;
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                                                                                  KEY_COUNT = .KEY_COUNT - 3;
                                                                           END:
                                                                                          ! Go through XABs
                                                                      If we had discovered any error while freeing the XAB's we report it now. If we had reported it when we found it, we would have been left with some XABs laying around
                                                                       whose memory had not been deallocated.
                                                                   IF NOT .XAB_STATUS
                                                                          $FOR$$SIGNAL_STO (.XAB_STATUS);
                                                                   END:
                                                                                          ! Indexed file
                                                                                                                                      ! End of old file processing
                                             ! <BLF/PAGE>
```

Page 42 (24)

Page

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D 12
16-Sep-1984 00:37:00
14-Sep-1984 12:32:16
FOR$$OPEN_DEFLT FORTRAN default open 1-098
                                                                                                                                                           VAX-11 Bliss-32 V4.0-742
LFORRTL.SRCJFOROPENDE.B32;1
IF .FAB [FAB$V_FTN]
THEN
                             1905
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1911
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1913
                                                       CCB [LUB$V_FTN] = 1;
.FAB [FAB$V_CR]
                                                  THEN
                                                       CCB [LUB$V_CR] = 1;
.FAB [FAB$V_PRN]
                                                  THEN
                                                         CCB [LUB$V_PRN] = 1;
                             1915
                             1916
                                                    Allocate record buffer dynamically from LUB$W_RBUF_SIZE setting in bytes. Set LUB$A_RBUF_ADR to address of buffer allocated.
                             1918
                             1919
                             1920
1921
1922
1923
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1926
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1928
                                                  CCB [LUB$A_RBUF_ADR] = FOR$$GET_VM (.CCB [LUB$W_RBUF_SIZE]);
                                                     Allocate dynamic storage for the file name so the name can be used later on for error diagnostics. Point the LUB to the new
                                                     location. (The size is already correct!)
                                                     Indicate that the string name is now stored in virtual memory so
                                                     it will be deallocated!
                            1929
1930
1931
1932
1933
1934
1935
1936
1937
1938
                                                  BEGIN
   1891
1892
1893
1894
1895
                                                 LOCAL
                                                 T = FOR$$GET_VM (.CCB [LUB$B_RSL]);
CH$MOVE (.CCB [LUB$B_RSL], .CCB [LUB$A_RSN], .T);
CCB [LUB$A_RSN] = .T;
NAM [NAM$L_RSA] = .T;
NAM [NAM$L_ESA] = .T;
NAM [NAM$L_ESA] = .T;
NAM [NAM$B_ESL] = .CCB [LUB$B_RSL];
CCB [LUB$V_VIRT_RSN] = 1;
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                             1940
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1944
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1954
   1900
1901
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1904
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1906
1907
1908
1909
1910
                                                  END:
                                                    Store a code in the LUB indicating the type of organization.
                                                  SELECTONE (.FAB [FAB$B_ORG]) OF
                                                        [FAB$C_SEQ] :
    CCB [LUB$B_ORGAN] = LUB$K_ORG_SEQUE;
    1911
   1912
                                                        [FAB$C_REL] : CCB [LUB$B_ORGAN] = LUB$K_ORG_RELAT;
   1914
                             1956
1957
                                                        [FAB$C IDX] :
    1916
    1917
                             1958
    1918
                             1959
                             1960
                                                                IF .CCB [LUB$V_SEGMENTED] THEN $FOR$$SIGNAL_STO (FOR$K_INCRECTYP);
   1920
```

```
E 12
16-Sep-1984 00:37:00
14-Sep-1984 12:32:16
FOR$$OPEN_DEFLT FORTRAN default open 1-098
                                                                                                                                                            VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FOROPENDE.B32:1
  1962
1963
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1968
1970
1971
1972
1973
                                                                CCB [LUB$B_ORGAN] = LUB$K_ORG_INDEX;
                                                         [OTHERWISE]
                                                                $FOR$$SIGNAL_STO (FOR$K_INCFILORG);
                                                  ! Set RAB fields that seldom change: UBF and USZ
                                                 CCB [RAB$L_UBF] = .CCB [LUB$A_RBUF_ADR];
CCB [RAB$W_USZ] = .CCB [LUB$W_RBUF_SIZE];
CCB [LUB$A_UBF] = .CCB [LUB$A_RBUF_ADR];
                            1975
                            1976
                            1978
                                                  If the file is a sequential organization, sequential access, disk file which is not a PPF, enable RFA cacheing for BACKSPACE.
                            1979
                            1980
1981
                                                      NOT .CCB [LUB$V_NOTSEQORG] AND NOT .CCB [LUB$V_DIRECT] AND NOT .CCB [LUB$V_FIXED] AND NOT .NAM [NAM$V_PPF] AND NOT .FAB [FAB$V_SQO]
                            1982
1983
                                                  IF NOT
                            1984
                            1985
                            THEN
                                                        BEGIN
                                                              FAB_DEV = FAB [FAB$L_DEV]: BLOCK [4, BYTE];
FAB_DEV [DEV$V_RND] ! Random-access device?
                                                               BEGIN
                                                                      RCE: REF RCE_R_RCE_STRUCT,
OLD_RCE: REF RCE_R_RCE_STRUCT;
                                                                  Allocate space for the RFA cache entries.
                                                                RCE = FOR$SGET VM (
                                                                       (RCE_K_CACRE_SIZE * RCE_S_RCE_STRUCT));
                                                                   Create a circularly linked list of entries and zero the
                                                                  LOG_RECNO field of each entry.
                                                               CCB [LUB$A_RFA_CACHE_BEG] = .RCE: !
CCB [LUB$A_RFA_CACHE_PTR] = .RCE: !
OLD_RCE = .RCE + (RCE_K_CACHE_SIZE - 1
DECRU I FROM RCE_K_CACHE_SIZE TO 1 DO
                                                                                                                                  First allocated byte
                                                                                                                             ! Current entry
- 1) * RCE_S_RCE_STRUCT;
                                                                       BEGIN
   1974
                                                                      OLD_RCE [RCE_A_NEXT] = .RCE;
RCE [RCE_A_PREV] = .OLD_RCE;
RCE [RCE_L_LOG_RECNO] = 0;
OLD_RCE = .RCE;
   1975
   1976
  1977
```

```
f 12
16-Sep-1984 00:37:00
14-Sep-1984 12:32:16
FOR$SOPEN_DEFLT FORTRAN default open
                                                                                                                        VAX-11 Bliss-32 V4.0-742
[FORRTL.SRC]FOROPENDE.B32:1
  1978
1979
1980
1981
1983
1984
1985
1986
1986
1993
1994
1995
1996
1997
                                                       RCE = .RCE + RCE_S_RCE_STRUCT;
END:
                                                 CCB [LUB$V_RFA_CACHE_ENABLE] = 1;
                                                 END:
                                           END:
                                 ! Indicate that the file is now FORTRAN opened.
                                      CCB [LUB$B_LANGUAGE] = LUB$K_LANG_FOR;
CCB [LUB$V_OPENED] = 1;
                                   Make sure that the FORTRAN exit handler will be called when the image
                                   exits to purge the file's I/O buffers and close it, if necessary.
                                      IF ( NOT .FOR$$L_XIT_LOCK) THEN FOR$$DECL_EXITH ();
                      2038
2039
                                                                                                     Return from OPEN_PROC routine
                                      RETURN:
                                      END:
                                                                                                  ! End of OPEN_PROC routine
                           3A
54
41
                                                                       59
                                                                                          P.AAA:
                                      550E4505E54E
                                                                                                     .ASCII
                                                                                                                \SYS$INPUT:\
                                                 45143330992
                                 754A404AE4
                                                                                         P.AAB:
                                                                            544444444
                                                      452319420
                                                                                                                \SYS$OUTPUT:\
                                                                                                     .ASCII
                                            4415350E9
                                                                                  0003A
00045
                                                                                          P.AAC:
                                                                                                     .ASCII
                                                                                                                \FORREAD.DAT\
                                                                                         P.AAD:
                                                                       4F
                                                                                                     .ASCII
                                                                                                                \FOR$READ:\
                           2E
54
41
                     44
34
54
                                                                                  0004E
           54
                                                                                         P.AAE:
               41
                                                                                                                \FORACCEPT.DAT\
                                                                                                     .ASCII
                                                                                  0005B
                                                                                          P.AAF:
                                                                                                                \FORSACCEPT:\
                                                                                                     .ASCI
                                                                                         P.AAG:
                                                                                  00066
                                                                                                     .ASCI
                                                                                                                \FORTYPE.DAT\
                                                                                  00071 P.AAH:
                                                                       4F
                                                                                                     .ASCII
                                                                                                                \FOR$TYPE:\
                                                                                  0007A
                                                                                         P.AAI:
                                                                                                     .ASCII
                                                                                                                \FORPRINT.DAT\
                                                                                  00086 P.AAJ:
                                                                                                     .ASCII
                                                                                                                \FOR$PRINT:\
                                                                                          A SYS$INPUT=
                                                                                                                     P.AAA
                                                                                          A_SYS$OUTPUT=
                                                                                                                     P.AAB
                                                                                                               SYSSTRNLOG, SYSSPARSE
SYSSOPEN, SYSSCREATE
SYSSCONNECT
                                                                                                     .EXTRN
                                                                                                     .EXTRN
                                                                                                     .EXTRN
                                                                           07FC 00000
                                                                                                     .ENTRY
                                                                                                                FOR$$OPEN_PROC, Save R2,R3,R4,R5,R6,R7,R8,-
                                                                                                                                                                              0291
                                                                                                               R9,R10
-632(SP), SP
-24(CCB)
                                                                        CE
AB
3C
                                                                              9E
05
13
                                                                                  00002
                                                     5E
                                                                                                     MOVAB
                                                                                                     TSTL
                                                                                                                                                                              0406
                                                                                  0000A
                                                                                                     BEQL
                                                                        AB
A6
50
56
                                                                                                               -24(CCB), HEAP FAB
1(HEAP FAB), RO
RO, (HEAP FAB), 68(CCB)
HEAP FAB
                                                     56
50
                                                                 E8
01
                                                                             00
9A
28
                                                                                  0000C
                                                                                                     MOVL
                                                                                                                                                                              0411
                                                                                  00010
                                                                                                     MOVZBL
                                                                                                                                                                              0412
                                                                                  00014
                                                                                                     MOVC3
                                  AB
                                                     66
                                                                              DD
9A
                                                                                  00019
                                                                                                     PUSHL
                                                                                                                                                                              0413
                                                                                                                1(HEAP FAB), -(SP)
#2, FOR$$FREE_VM
-24(CCB)
                                                                                  0001B
                                                                 01
                                                                                                     MOVZBL
                                      0000000G
                                                                                  0001F
                                                                              FB
                                                                                                     CALLS
                                                                        AB
AB
19
                                                                              D4
9A
13
                                                                                                                                                                              0414
                                                                                                     CLRL
                                                     56
                                                                                                     MOVZBL
                                                                                                                120(CCB), R6
                                                                                                     BEQL
                                                                                                     MOVC3
                                                                                                                     all2(CCB), TEMP_FNS
                                                                                                                                                                              0418
                        FEC8
                                               70
                                                     BB
                                  CD
                                                                                                                112(CCB)
                                                                  70
                                                                        AB
                                                                              DD
                                                                                                     PUSHL
```

FORSSOPEN_DEFLT F	ORTRAN	def	ault open					12		1984 00:37 1984 12:32		VAX-11 Bliss-32 V4.0-742 EFORRTL.SRCJFOROPENDE.B32;1	Page 47
20		00	00000000G 70 6C 24 20 20 20 24 009E 0096	OO AB S S B B B B B B B B B B B B B B B B	FEC8 0094 0098 00A0 40	50CCB9BBE001100DFDDDB05BBBBBC000ABAAA00000ABAAA000000ABAAA00000000	DBEE00000000000000000000000000000000000	00039 00038 00042 00048 00040 00051 00057 00065 00065 00069	1\$:	PUSHL CALLS MOVAB MOVAB MOVAB MOVAB MOVAB MOVAB MOVL MNEGB MNEGB MCVC5	R62MB 1149500 11605 1160	FOR\$\$FREE_VM FNS, 112(CCB) R11), R9 108(CCB) CCB), 36(SP) CCB), 32(SP) OR_EXP_NAME, RO a32(SP) a36(SP) 158(CCB) 150(CCB) (SP), #0, #44, \$RMS_PTR	0429 0429 0430 0431
			C8 68 OC OC	AB 58 AE BE	2C1D C8 C8 48	8F AD AB AB	B9EE98849EE98F	00010			#112 XAB XAB 72(0 #32,	93, \$RMS_PTR BLOCK, 104(CCB) BLOCK, KEY_XAB CB), 12(SP) a12(SP)	0432 0433 0440
0103		03 00F0	FFFC	56 52 53 8F 00D5	79 74 70 66	AB AB AB OOC2	9E 9E 9E AF	00092 00094 00098 0009C 000A0 000A7	2\$:	MOVAB MOVAB MOVAB BISB2 CLRL MOVAB MOVAB MOVAB CASEW .WORD	121( 116( 112( -58( 10\$- 11\$-	93, \$RMS PTR BLOCK, 104(CCB) BLOCK, KEY_XAB CB), 12(SP) FLOGNAM CCB), R6 CCB), R2 CCB), R3 CCB), R3 CCB), M-4, M3 -2\$,2\$,-	0469 0544 0545 0580 0471
				50 57	04 38	AC AO O5 AO 56 8F	DO 00	000AF 000B3 000B7 000B9		MOVL MOVL	14\$- OPEN 56(R	2\$°   ADR, RO   0), R7	0516
					68	ÃÓ	DO 13 D5 12	000B9		MOVL BEQL TSTL BNEQ	104(	RO)	0517
76		00	F4 F6	AD 51 51	4F46 52 C6 00000064	8F 8F AB 8F 01	BO	000BE 000C4 000C9 000CD 000D4 000D9 000DE	3\$:	MOVW MOVB CVTWL DIVL2	#202 #82, -58( #100	94, T_DFLT_FILE_NAM T_DFCT_FICE_NAM+2 CCB), RT R1, #0, -(SP) (SP)+, R1, R1 R1, T_DFLT_FILE_NAM+3 CCB), R1 R1, #0, -(SP) (SP)+, R1, R1 R1, T_DFLT_FILE_NAM+4 CCB), R1 R1, T_DFLT_FILE_NAM+5 R1, T_DFLT_FILE_NAM+5 R1, T_DFLT_FILE_NAM+6 R0), NAM_DSC	0520 0522 0523
7E 51	F7	00 51 AD		8E 51 51	C6	0A 30 AB 0A 01	93C7783C7783778DD1DB190	000D9 000DE 000E3		EMUL EDIV ADDB3 CVTWL DIVL2 EMUL EDIV ADDB3 CVTWL	#10. #48. -580	(SP)+, R1, R1 R1, T_DFLT_FILE_NAM+3 CCB), R1	0524
7E 51	F8	00 51 AD		51 8E 51		01 0A 30	7A 7B 81	000E7 000EA 000EF 000F4 000F9 000FD 00107 00107		EMUL EDIV ADDB3	#10. #10. #48.	R1, #0, -(SP) (SP)+, R1, R1 R1, T DFLT FILE NAM+4	
7E 51	12	00 51 AD		51 51 8E	65	0A 30 AB 01 0A	32 7A 7B	000F9 000FD 00102		CVTWL EMUL EDIV	-58( #1 #10.	CCB), R1 R1, #0, -(SP) (SP)+, R1, R1	0525
	F9	AD	FA	51 AD	5441442E 68	0A 30 8F A0 14 A0	81 00 05	00107 0010C 00114	45:	EMUL EDIV ADDB3 MOVL TSTL	#48 #141 104(	R1, T_DFLT_FILE_NAM+5 3563438, T_DFLT_FILE_NAM+6 R0)	0526 0537
			OOFF	54 8F	68	A0 64	DO B1	00117 00119 0011D 00122 00124 00127		BEQL MOVL CMPW BGTRU		RO), NAM DSC _DSC), #255	0542 0543
				66	04	64 A4	90 00	00124 00127		MOVB MOVL	(NAM	DSC), (R6) M_DSC), (R2)	0544 0545

FOR\$\$OPEN_DEFLT FORTRAN default open 1-098		H 12 16-Sep-1984 00:37:00 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:32:16 [FORRTL.SRCJFOROPENDE.B32;1	Page 48 (25)
	66 62 F4	07 11 0012B BRB 6\$ 0A 90 0012D 5\$: MOVB #10, (R6) AD 9E 00130 MOVAB T_DFLT_FILE_NAM, (R2) 57 D5 00134 6\$: TSTL R7	: 0537 : 0554 : 0555 : 0563
OOFF	52 8F	17 13 00136 BEQL 9\$ 57 DO 00138 MOVL R7, NAM_DSC 62 B1 0013B CMPW (NAM_DSC), #255 03 18 00140 7\$: BLEQU 8\$	0575 0577
78	AB 63 04	62 90 00145 8\$: MOVB (NAM DSC), 120(CCB)	0579 0580 0563 0592
78	AB 63 F4 05 C6	70 12 00151 BNEQ 16\$	0592 0595 0596 0604
	05 C6 06 C6	06 90 00153 MOVB #6, 120(CCB) AD 9E 00157 MOVAB T_DFLT_FILE_NAM, (R3) AB B1 0015B CMPW -58(CCB), #5 2C 13 0015F BEQL 12\$ AB B1 00161 CMPW -58(CCB), #6 5C 12 00165 BNEQ 16\$ 52 11 00167 BRB 15\$	0612
78	66 62 FE3A AB 63 FE3C	52 11 00167 BRB 15\$ 0B 90 00169 10\$: MOVB #11, (R6) CF 9E 0016C MOVAB P.AAC, (R2) 09 90 00171 MOVB #9, 120(CCB) CF 9E 00175 MOVAB P.AAD, (R3) 11 11 0017A BRB 12\$	0615 0476 0477 0478 0479 0480 0486 0487 0488 0490 0491 0491 0491 0491 0496 0497 0498 0500 0506 0507 0508
78		0B 90 00169 10\$: MOVB #11, (R6)  CF 9E 0016C MOVAB P.AAC, (R2)  09 90 00171 MOVB #9, 120(CCB)  CF 9E 00175 MOVAB P.AAD, (R3)  11 11 0017A BRB 12\$  OD 90 0017C 11\$: MOVB #13, (R6)  CF 9E 0017F MOVAB P.AAE, (R2)  OB 90 00184 MOVB #11, 120(CCB)  CF 9E 0018B MOVAB P.AAF, (R3)  CF 9E 0018D 12\$: MOVAB A_SYS\$INPUT, A_DEF_LOGNAM	0479 0480 0486 0487
	66 62 FE3B AB 63 FE3F 55 FE04	OD 90 0017C 11\$: MOVB #13, (R6) CF 9E 0017F MOVAB P.AAE, (R2) OB 90 00184 MOVAB P.AAF, (R3) CF 9E 0018B MOVAB P.AAF, (R3) CF 9E 0018D 12\$: MOVAB A_SYS\$INPUT, A_DEF_LOGNAM OA DO 00192 MOVL #T0, L_DEF_LOGNAM 2C 11 00195 BRB 16\$ OB 90 00197 13\$: MOVB #11, (R6) CF 9E 0019A MOVAB P.AAG, (R2) O9 90 0019F MOVB #9, 120(CCB)	0489 0490 0491
78	66 62 FE38 AB 63 FE3A	0B 90 00197 13\$: MOVB #11, (R6) CF 9E 0019A MOVAB P.AÁG, (R2) 09 90 0019F MOVB #9, 120(CCB) CF 9E 001A3 MOVAB P.AAH, (R3) 11 11 001A8 BRB 15\$	0496 0497 0498 0499
78	66 62 FE39 AB	11 11 001A8 BRB 15\$ 0C 90 001AA 14\$: MOVB #12, (R6) CF 9E 001AD MOVAB P.AAI, (R2) 0A 90 001B2 MOVB #10, 120(CCB) CF 9E 001B6 MOVAB P.AAJ, (R3) CF 9E 001BB 15\$: MOVAB A_SYS\$OUTPUT, A_DEF_LOGNAM	0500 0506 0507 0508
	63 FE3C 55 FDE0	OA 90 001B2 MOVB #10, 120(CCB) CF 9E 001B6 MOVAB P.AAJ, (R3) CF 9E 001BB 15\$: MOVAB A SYS\$OUTPUT, A DEF_LOGNAM OB DO 001C0 MOVL #T1, L DEF_LOGNAM 55 D5 001C3 16\$: TSTL A DEF_LOGNAM 47 13 001C5 BEQL 18\$	0509 0510 0511 0631
3A 30 34 3C 38	AE 010E00FF AE 40 AE 78		0640 0643 0644 0645 0646
36 38	C6	8F B0 001C7 8F D0 001CD AE 9E 001D5 AE 9E 001D5 AB 9B 001DE AB B5 001E3 O3 18 001E6 AE B7 001E8 7E 7C 001EB 17\$: CLRQ -(SP) AE 9F 001EF AE 9F 001EF AE 9F 001EF AE PF 001EF AE PF 001EF AE PF 001EF AE AE B7 001EF AE PF 001EF AE PF 001EF AE BROUND #270, LOGNAM_DSC+2 #17694975, RESULT_DSC	:
	38 30	AE B7 001EB 7E 7C 001EB 17\$: CLRQ -(SP) 7E D4 001ED CLRL -(SP) AE 9F 001EF PUSHAB RESULT_DSC	0655

ORSSOPEN_DEFLT FOR	TRAN defa	ult open				I 12 16-Sep- 14-Sep-	1984 00:37 1984 12:32	:00	VAX-11 Bliss-32 V4.0-742 [FORRTL.SRC]FOROPENDE.B32;1	Page (25
		00000000G 00000629	00 8F	C AE 06 50 07	D4 9F FB D1 12	001F7	CLRL PUSHAB CALLS CMPL BNEQ MOVAB MOVAB MOVAB MOVAB MOVAB CLRL MOVAB PUSHL CALLS BLBC BISB2 CLRL MOVL BLBC BISB2	-(SP LOGN #6, R0, 18\$	AM_DSC SYS\$TRNLOG #1577	
		78 14	AB AE F	8 AB 63	90 9E	0020E 18\$:	MOVL MOVB MOVAB	A_DE	F_LOGNAM, (R3) F_LOGNAM, 120(CCB) CB), 20(SP) , a20(SP) CB), 28(SP) CCB), a28(SP) CCB) CCB) CCB) SYS\$PARSE	; 066 ; 066 ; 067
		14 14 10 10	AB AE BE AE BE 7	7 AB 8 AB	9E	00213 00217 0021C	MOVAB MOVB	-9(C	, a20(SP) (B), 28(SP) (CB), a28(SP)	068
		08	AE 4	7 AB 8 AB C AB 4 AB 8 AE 01	94 9E DD FB	00221 00224 00229	MOVAB	108( 68(C	(CB) (B), 8(SP)	: 068
		0000000G	00 0B	50	E9	00233	CALLS	#1. RO.	SYS\$PARSE	
	05	0085 0C		0 8F C AB 59	88	00236 3 0023C 5 00241 19\$:	BISB2 CLRL	#64. 76(¢	a12(SP) (B)	069 069 069 069
		60	AB 57 06	4 AC 0 A7	D0 D0 E9	00248	MOVL MOVL BLBC	R9, OPÉN 32(R	108(CCB) ADR, R7 7), 20\$	: 069
		FC	AB	04	88 11 95	3 00250 00254 5 00256 20\$:	BISB2 BRB	21\$	SYS\$PARSE 19\$ 133(CCB), 19\$ a12(SP) CB) 108(CCB) ADR, R7 7), 20\$ -4(CCB)	071 070 070
		5A	AB	04 1F		2 00259 0 0025B	BRB TSTB BNEQ MOVB TSTL BNEQ MOVL BISW2 CASEL	90(C 21\$ #31,	90(CCB)	077
		EO OC	AB	04	12	00262	BNEQ	22\$	-32(CCB)	
002E	0027		BE 040 00 1	0 A7 0027 0046		00273 23\$:	CASEL .WORD	16 (R 25\$-	7), #0, #4	07 07 07
				0046		0027B		25\$- 26\$-	90(CCB) -32(CCB) 4, a12(SP) 7), #0, #4 23\$,- 23\$,- 23\$,-	
		FC	AB	5A 10	11	0027D 0027F 24\$:	BRB BISB2	31\$ #16,	-4(CCB)	077
		F C OC 1E 30	AB	0 8F 01 0 AB 10 30	88 90 9E 94	00283 00288 00280	BRB BISB2 BICB2 MOVB MOVAB CLRB BISB2 BRB BISB2	#64, #1, -32(	a12(SP) 30(CCB) CCB), 48(CCB)	; 074 : 074 : 074
		04	AB 3	0 AB 4 AB 10	94 88 11	00291 00294 00298	CLRB BISB2 BRB	52(C) #16,	(B) 4(CCB)	: 074 : 074 : 073
	55	FD		0 8F	88	0029A 25\$: 0029F 002A1 26\$:	BISB2 BRB	27\$	-3(CCB)	074
	,,	6 C 0 5 F D 0 C	AB AB BE 040	02 01 20 0 8F	88 88 88 94	002A6 002AA	BISB2 BISB2	#1.	5((CB) -3((CB)	075
			1	E AB	11	002B7	BRB BBS BISB2 BISB2 BICW2 CLRB BRB BICB2 MOVB CLRB BISB2	30 (C) 29\$	-4(CCB) a12(SP) 30(CCB) CCB), 48(CCB) CB), 48(CCB) -3(CCB) -4(CCB), 36\$ 5(CCB) -3(CCB) 4, a12(SP) CB) 30(CCB) CB) -3(CCB) CB) -3(CCB) CB) -3(CCB)	077 074 074 074 074 074 075 075 076 076
		0C 1E	AB	0 8F 01 5 AB 0 8F	8A 90 94 88	002B9 28\$: 0002BE 0002C2	MOVB CLRB	#64. 53(c)	30(CCB) (B)	: 076 : 076 : 076
		FD	AB 8	5 AB 0 8F	88	00205	BISB2	#128	, -3(CCB)	: 076

OR\$\$OPEN_DEFLT FO	RTRAN defaul	t open		J 12 16-Sep-198 14-Sep-198	84 00:37:00 84 12:32:16	VAX-11 Bliss-32 V4.0-742 [FORRTL.SRC]FOROPENDE.B32;1	Page 50
001A	0013	0000	3C A7 0013 002F	CF 002CA 29\$: 002CF 30\$: 002D7	CASEL 60(R) 33\$-33\$-33\$-33\$-33\$-33\$-33\$-33\$-33\$-33\$	7), #0, #4 50\$,- 50\$,-	0783
		FC AB	02EA 08	31 002D9 31\$: 88 002DC 32\$: 11 002E0	DDU 1016		0818 0787
	22	FC AB	03	E0 002E2 33\$:	BRB 385 BBS #3,	-4(CCB), 38\$	:
	05 0E	FC AB OC BE FC AB FD AB	20 10 02 05	88 002E9 34\$:	BRB 38\$ BBS #3,- BRB 35\$ BISB2 #32, BISB2 #16, BBS #2,- BBC #5,- BRW 84\$	-4(CCB) -4(CCB), 38\$ -4(CCB) a12(SP) -4(CCB), 36\$ -3(CCB), 38\$	0791 0793 0804 0804 0804 0806 0811 0812
OC BE		19	01 Č Š	31 002FB 36\$: FO 002FE 37\$:	BBS #2, - BBC #5, - BRW 84\$ INSV #1, #	725, #1, a12(SP)	: 0806
	01 F2	FC AB 52 53	08 A7	E0 00304 D0 00309 38\$: D0 0030D	BBS #2, -	/25, #1, @12(SP) -4(CCB), 36\$ ), R2	; 0812 ; 0831
		53	01 52 02	DO 0030D D5 00310 12 00312	INSV #1, #1, #8 BBS #2, - MOVL #1, #1 TSTL R2 BNEQ 39\$ CLRL R3 CMPL R2, #5 BNEQ 40\$ CLRL R3	13	0834
		01	52	01 00316 39\$: 12 00319	CMPL R2, A	r1	: 0837
	D9	FC AB 02 05	02 02 02 01 01 01 08 08 02 03 03 04 04 08 08	D4 0031B E0 0031D D1 00322 40\$: 13 00325 D1 00327	MOVL 8(R7) MOVL #1, F TSTL R2 BNEQ 39\$ CLRL R3 CMPL R2, F BNEQ 40\$ CLRL R3 CMPL R3 CMPL R40\$ CMPL R2, F BEQL 41\$ CMPL R2, F BEQL 41\$ CMPL R2, F BLSS 42\$ CMPL R2, F	-4(CCB), 36\$ -4(CCB), 36\$ -4(CCB), 36\$ -4(CCB), 36\$ -4(CCB), 36\$ -4(CCB), 36\$ -1(CCB) -3; -4(CCB), 36\$ -1(CCB) -3; -3; -3; -3; -3; -3; -3; -3; -3; -3;	0839 084
		06	11 52 00	19 0032A D1 0032C 14 0032F	BLSS 42\$ CMPL R2, A BGTR 42\$	16	
	с3	FC AB	40 8F	14 0032F D4 00331 41\$: E0 00333 88 00338 D1 0033D 42\$: 13 00340 D1 00342	BBS #2,- BISB2 #64,	-4(CCB), 36\$ -4(CCB)	0844 0847 0850
		05	05 52 00	13 00340 01 00342 12 00345	BEQL 43\$ CMPL R2, A	15	. 0030
	AD	FC AB 04	80 8F 52	D4 00347 43\$: E0 00349 88 0034E D1 00353 44\$:	CLRL R3 BBS #5, - BISB2 #128, CMPL R2, #	-4(CCB), 36\$	0854 0856 0859
		06	05 52	13 00356 01 00358	BEQL 45\$	16	
	97	FC AB FF AB 3A	53 05 20 53	12 00345 D4 00347 E0 00349 88 0034E D1 00353 13 00356 D1 00358 12 0035B D4 0035D E0 0035F 88 00364 E8 00368 CF 0036B	CLRL R3 M2	-4(CCB), 36\$ -1(CCB)	0863 0867 0871 0882
001A	03 FF 0014	FFFFFF 8F 000A	14 A7 001E	CF 0036B 00374 47\$:	CASEL 20(R7 .WORD 51\$-4	75,- 75,-	0882
			71	11 0037C	BRB 64\$	75	0903

FOR\$SOPEN_DEFLT FO	DRTRAN defaul	t open	K 12 16-Sep-1984 00:37:00 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:32:16 [FORRTL.SRCJFOROPENDE.B32;1	Page 51
	08	FC AB		: 0890
		FD AB	06 19 00386 BLSS 50\$ 01 88 00388 49\$: BISB2 #1 -3(CCB)	: 0897
0020	06 001A 0047	FD AB 00 0010 0041	50 A7 CF 00392 51\$: CASEL 80(R7), W0, W6 004B 00397 52\$: .WORD 62\$-52\$,- 003B 0039F	0900 0913
		FD AB	59\$-52\$,- 60\$-52\$,- 60\$-52\$,- 61\$-52\$  76 11 003A5 53\$: BRB 70\$ 04 88 003A7 54\$: BISB2 #4, -3(CCB) 01 90 003AB MOVB #1, 99(CCB) 31 11 003AF BRB 62\$ 02 90 003B1 55\$: MOVB #2, 99(CCB) 2B 11 003B5 BRB 62\$ 04 E1 003B7 56\$: BBC #4, -4(CCB), 58\$	0964 0928 0929 0913 0913
	03	63 AB FC AB	76 11 003A5 53\$: BRB 70\$ 04 88 003A7 54\$: BISB2 #4, -3(CCB) 01 90 003AB MOVB #1, 99(CCB) 31 11 003AF BRB 62\$ 02 90 003B1 55\$: MOVB #2, 99(CCB) 2B 11 003B5 BRB 62\$ 04 E1 003B7 56\$: BBC #4, -4(CCB), 58\$ 0104 31 003BC 57\$: BRW 84\$ FD AB 95 003BF 58\$: TSTB -3(CCB) F8 19 003C2 BLSS 57\$ FD AB E8 003C4 BLBS -3(CCB), 57\$ 02 90 003C8 MOVB #2, 99(CCB) 08 88 003CC BISB2 #8, -3(CCB) 10 11 003D0 BRB 62\$	0934 0913 0940
		63 AB FD AB 63 AB	0104 31 003BC 57\$: BRW 84\$  FD AB 95 003BF 58\$: TSTB -3(CCB) F8 19 003C2 BLSS 57\$  FD AB E8 003C4 BLBS -3(CCB), 57\$  02 90 003C8 MOVB #2, 99(CCB) 08 88 003CC BISB2 #8, -3(CCB) 10 11 003D0 BRB 62\$ 04 90 003D2 59\$: MOVB #4, 99(CCB)	094 094 091 095
0018	03 0014	63 AB 63 AB 00 000E	04 E1 003B7 56\$: BBC #4, -4(CCB), 58\$  FD AB 95 003BF 58\$: TSTB -3(CCB)  FB 19 003C2  FD AB 88 003C4 BLSS 57\$:  FD AB 88 003CC BLSS 57\$:  10 11 003D0 99 003CB BISB2 #8, -3(CCB)  04 90 003D2 59\$: MOVB #2, 99(CCB)  04 90 003D2 59\$: MOVB #4, 99(CCB)  04 11 003D0 BRB 62\$:  06 90 003D8 60\$: MOVB #6, 99(CCB)  06 11 003D0 BRB 62\$:  07 90 003D6 61\$: MOVB #6, 99(CCB)  10 A7 CF 003E2 62\$: CASEL 28(R7), #0, #3  10 A8 88 003F5 66\$: BLBC -3(CCB), 68\$  10 1 88 003F5 66\$: BLBC -3(CCB)  04 11 003F6 64\$: BRB 62\$  04 11 003F7 65\$: BLBC -3(CCB), 68\$  04 11 003F9 BRB 68\$  05 90 0040S BRB 68\$  06 88 003FF 68\$: MOVAB 98(CCB), (SP)  00 BE 90 0040S MOVAB 98(CCB), R9  00 BE 90 0040S MOVAB 90(CB), ORIGINAL AND AB 9E 0040B MOVAB 90(CB), ORIGINAL AND AB 9E 0040B MOVAB 96(CB), R9  00 BE 90 0040S MOVAB BISB2 #8, 1(R9)  40 A7 CF 00410 CASEL 76(R7), #0, #3  71\$-69\$,-  71\$-69\$,-  71\$-69\$,-  71\$-69\$,-  71\$-69\$,-  71\$-69\$,-  71\$-69\$,-  71\$-69\$,-  75\$-69\$  FD AB 95 0042B 72\$: TSTB -3(CCB)	094 094 095 095 095 091 096 097
		62 AB	67\$-63\$,- 68\$-63\$  2C 11 003EF 64\$: BRB 70\$  FD AB E9 003F1 65\$: BLBC -3(CCB), 68\$ 01 88 003F5 66\$: BISB2 #1, 98(CCB) 04 11 003F9 BRB 68\$	0997 0979 0988
		62 AB 6E 28 AE 59 01 A9	FD AB E9 003F1 65\$: BLBC -3(CCB), 68\$  01 88 003F5 66\$: BISB2 #1, 98(CCB)  04 11 003F9 BRB 68\$  02 88 003FB 67\$: BISB2 #2, 98(CCB)  62 AB 9E 003FF 68\$: MOVAB 98(CCB), (SP)  00 BE 90 00403 MOVB a0(SP), ORIG_RAT  A0 AB 9E 00408 MOVAB -96(CCB), R9  08 88 0040C BISB2 #8, 1(R9)  4C A7 CF 00410 CASEL 76(R7), #0, #3  000B 00415 69\$: .WORD 71\$-69\$,-	0985 0999 1008
0039	0029	01 A9 00 000B	4C A7 CF 00410 CASEL 76(R7), #0, #3 000B 00415 69\$: .WORD 71\$-69\$,- 71\$-69\$,- 74\$-69\$,- 75\$-69\$	1010
	06	FC AB 02	01A6 31 0041D 70\$: BRW 101\$ 04 E1 00420 71\$: BBC #4, -4(CCB), 72\$ 63 AB 91 00425 CMPB 99(CCB), #2 91 13 00429 BEQL 57\$ FD AB 95 0042B 72\$: TSTB -3(CCB)	1016

FOR\$\$OPEN_DEFLT FORTRAN default open 1-098		L 12 16-Sep-1984 00:37:00 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:32:16 [FORRTL.SRC]FOROPENDE.B32;1	Page 52 (25)
	4C A	18   0042E	
01	A9 61 A	B 94 00435 73\$: CLRB 97(CCB) 8 84 00438 BICB2 #8, 1(R9)	1024 1025 1010 1031
15 FD	A9 AB FD AAB AB	3 E0 0043E 74\$: BBS #3, -3(CCB), 76\$ B 95 00443	1031
61	AB 1	0 90 00448 MOVB #16, 97(CCB)	1033
70 FC 68 FD 66 FD	AB O	4 EO 0044E 75\$: BBS #4, -4(CCB), 84\$ 5 EO 00453 BBS #5, -3(CCB), 84\$	1039
61	AB 0 AB 0 AB 2 69 0 8F 63 A	4 E0 0044E 75\$: BBS #4, -4(CCB), 84\$ 5 E0 00453 BBS #5, -3(CCB), 84\$ 6 E0 00458 76\$: BBS #3, -3(CCB), 84\$ 6 90 00450 MOVB #32, 97(CCB)	1043
0B 50 0E000000	8F 63 A	B E1 00461 77\$: BBC #11, (R9), 78\$ B 78 00465 ASHL 99(CCB), #234881024, R0 B 19 0046E BLSS 84\$	1043 1054 1055
	50 Å	11 0044C 75\$: BBS #4, -4(CCB), 84\$ 5 E0 00453	1065
	10 61 Ā	B 91 00475 CMPB 97(CCB), #16 0 13 00479 BEQL 79\$ B 91 0047B CMPB 97(CCB), #32	1068
05 55	20 61 A	B 91 0047B CMPB 97(CCB), #32 A 13 0047F BEQL 79\$	
05 FC	AB FD A	B 95 00486 TSTB -3(CCB) A 18 00489 BGEQ 80\$	1069
63 FD	AB 0	1 90 0048B 79\$: MOVB #1, 99(CCB) 4 88 0048F BISB2 #4, -3(CCB) D 11 00493 BRB 81\$	1072
63	AB 0	D 11 00493 2 90 00495 80\$: MOVB #2, 99(CCB)	1072 1073 1068 1077 1079
04 FD FD	AB 0 0 AB 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 90 00495 80\$: MOVB #2, 99(CCB) 1 E1 00499 BBC #1, -3(CCB), 81\$ 8 88 0049E BISB2 #8, -3(CCB) 7 E9 004A2 81\$: BLBC 52(R7), 82\$	1079
05 5B		F 90 004A6 MOVB #15, 91(CCB) B E0 004AA BBS #11, (R9), 82\$	1092
5B 18	AB 00 AB 40 8 AE 5C A	F 90 004A6 MOVB #15, 91(CCB) B E0 004AA BBS #11, (R9), 82\$ F 88 004AE BISB2 #64, 91(CCB) 7 D0 004B3 82\$: MOVL 92(R7), 24(SP) 3 12 004B8 BNEQ 83\$	1092 1094 1096 1107
	20 61 A	5 12 00488 BNEQ 83\$ E 31 004BA BRW 99\$ B 91 004BD 83\$: CMPB 97(CCB), #32	1117
	50 01 0	5 13 004C1 BEQL 85\$ E DD 004C3 84\$: PUSHL #46 A 31 004C5 BRW 214\$	
	56 18 A AE 02 A	A 31 004C5 E DO 004C8 85\$: MOVL 24(SP), KEY_DEFN	1119
7E 00 04	56 18 A AE 02 A 56 0 AE 0 8E 0	E DÓ 004C8 85\$: MOVL 24(SP), KEY_DEFN 6 32 004CC CVTWL 2(KEY_DEFN), KEY_COUNT 4 CO 004D1 ADDL2 #4, KEY_DEFN 1 7A 004D4 EMUL #1, KEY_COUNT, #0, -(SP)	1119 1120 1121 1123
7E 00 04	8E 0	3 7B 004DA EDIV #3, (SP)+, R0, R0	1123
	000	3 13 004E1 BEQL 86\$ 0 31 004E3 BRW 101\$	
04	AE 0 SA 0	3 C6 004E6 86\$: DIVL2 #3, KEY_COUNT 1 CE 004EA	1125
000000006	AB 40 8 AD AE 50 AE 56 AE 8E 00 AE 5A 7E 50 00 8 00 8 00 8 00 8 00 8 00 8 00 8	## 10047B	1133
		[14] '작가 되는 마시 : [14] ' [14] ' [14] ' [15] ' [15] ' [15] ' [15] ' [15] ' [15] ' [15] ' [15] ' [15] ' [15] ' [15]	

SOPEN_DEFLT	FORTRA	N defau	ult open				M 12 16-56 14-56	p-1984 00:37 p-1984 12:32	:00 VAX-11 Bliss-32 V4.0-742 :16 [FORRTL.SRC]FOROPENDE.B32;1	Page (2
0050 8F		00	10	AE A8 58 6E	10 10	5AE08F6333246A6412222F288865640265656 025FAEAE0555C5A860605361626	DO 004FB DO 004FF DO 00504 2C 00508	MOVL MOVL MOVC5	RO, XAB_ADDR XAB_ADDR, 4(KEY_XAB) XAB_ADDR, KEY_XAB #0, (SP), #0, #80, (KEY_XAB)	11
				68 52	4C15 04	8F A6 03	0050F B0 00510 D0 00515 14 00519	MOVW MOVL BGTR	#19477, (KEY_XAB)	11:
		0	00007FFF	8F		02F3	31 0051R 889	: BRW : CMPL	89\$ 141\$ R2, #32767 88\$	11
		0	00007FFF	8F	08	F4	14 00525 D1 00527 14 0052F	BGTR CMPL	88\$ 8(KEY_DEFN), #32767	11
				52	08	A6	01 00531	CMPL	8(KEY_DEFN), R2	: 11
	1E	A8 52	08	52 A6		01	D1 0051E 899 14 00525 D1 00527 14 0052F D1 00531 19 00535 A3 00537 C3 0053C	SUBW3	8(KEY_DEFN), #32767 88\$ 8(KEY_DEFN), R2 88\$ #1, R2, 30(KEY_XAB) R2, 8(KEY_DEFN), R2 SIZE SIZE, #255 88\$	11
			00000FF	8F		52	D6 00541 D1 00543	INCL	SIZE SIZE #255	11
						CF 52	14 0054A 90 0054C	BGTR MOVB	88\$ SIZE, 46(KEY XAB)	1
			2E 4E 4D	A8 A8 A8	1E 2E	A8 A8 66	90 00555 95 00558	BRW CMPL BGTR CMPL BGTR CMPL BLSS SUBU3 INCL CMPL BGTR MOVB MOVB TSTB	SIZE, 46(KEY_XAB) 30(KEY_XAB), 78(KEY_XAB) 46(KEY_XAB), 77(KEY_XAB) (KEY_DEFN) 90\$	1
				0E		05 66 04	13 0055C 91 0055E 12 00561	BEQL CMPB BNEQ	(KEY_DEFN), #14	
						50 32	04 00563 909 11 00565	BRB	80 95\$	
				03		15	13 0056A		(KEY_DEFN), #3	1
				07		25	91 0056C 13 0056F 91 00571	EEQL.	(KEY_DEFN), #7	1
				04	25		91 0056C 13 0056F 91 00571 12 00574 91 00576	BEQL CMPB BEQL CMPB BNEQ CMPB BNEQ MOVL BRB : MOVL BRB	93\$	1
				04 50	2E	05	12 0057A	BNEQ	92\$ #/ PO	
				50		18	DO 0057C 11 0057F DO 00581 921	BRB MOVI	95\$ RO	
				08		13	00 00581 921 11 00584 91 00586 931	BRB : CMPB	95\$ (KEY DEFN) . #8	11
				04	2E	3B A8	12 00589 91 0058B	BNEQ	101\$- 46(KEY_XAB), #4	
				50		05	12 00589 91 0058B 12 0058F D0 00591 11 00594	BNEQ MOVL	%3, RO	
				50		03	11 00594 00 00596 941 90 00599 951	: BRB	95\$ #1. RO	1
			13	50 A8 A8	13	108548236B85533108A43ACE3	12 0057A D0 0057C 11 0057F D0 00581 921 11 00584 91 00586 12 0058F D0 00591 11 00594 D0 00596 90 00596 90 00599 90 00590 D5 005A2 13 005A4 88 005A6 90 005AE F2 005B1 F2 005B6	BNEQ CMPB BNEQ MOVL BRB : MOVB TSTL BEQL BISB2 : MOVB ADDL2 : AOBLSS BRB	(KEY_DEFN), #4 93\$ (KEY_DEFN), #4 92\$ #4, R0 95\$ #2, R0 95\$ (KEY_DEFN), #8 101\$ 46(KEY_XAB), #4 94\$ #3, R0 95\$ #1, R0 R0, 19(KEY_XAB) 19(KEY_XAB), 76(KEY_XAB) KEY_NUM 96\$ #3, 18(KEY_XAB) KEY_NUM, 23(KEY_XAB) #12, KEY_DEFN KEY_COUNT, KEY_NUM, 98\$ 99\$	11
			12	A8		04	13 005A4 88 005A6	BEQL BISB2	96\$" #3, 18(KEY_XAB)	
		02	17	A8 56 5A	01	OC.	88 005A6 90 005AA 961 CO 005AE	ADDL2	#12, KEY_DEFN	11
		02		JA	04	03	F2 005B1 979 11 005B6	BRB	99\$	: "

OR\$SOPEN_DEFLT FOR	RTRAN defaul	t open		N 12 16-Sep-1984 00:37:00 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:32:16 [FORRTL.SRC]FOROPENDE.B32;1	Page 5
	000B	0010	60 FF 35 0010	31 005B8 98\$: BRW 87\$ CF 005BB 99\$: CASEL 96(R7), #0, #2 005C0 100\$: .WORD 103\$-100\$,- 103\$-100\$,- 102\$-100\$	1204
			30	DD 005C6 101\$: PUSHL #48 31 005C8 BRW 214\$	1214
		FF AB	0557 40 8F 18 A7 18 A7 02 AB 03 03 04 03 61 AB F7	88 005CB 102\$: BISB2 #64, -1(CCB)	
		50	18 A7	88 005CB 102\$: BISB2 #64, -1(CCB) D4 005D0 103\$: CLRL V DEFAULT SIZE D0 005D2 MOVL 24(R7), R0 12 005D6 BNEQ 110\$	; 1230 ; 123
			D2 AB	12 00506 BNEQ 110\$ B5 00508 TSTW -46(CCB)	; 121 ; 123 ; 123 ; 123 ; 124
	0E 03	FC AB	03	88 005CB 102\$: BISB2 #64, -1(CCB) D4 005D0 103\$: CLRL	124
	03		03F6	E1 005E2 BBC #2, -3(CCB), 105\$ 31 005E7 104\$: BRW 188\$ 91 005EA 105\$: CMPB 97(CCB), #16	120
	12	10		91 005EA 105\$: CMPB 97(CCB), #16 13 005EE BEQL 104\$	124
	12 06	FD AB FD AB 50	02	E1 005F0 106\$: BBC #1, -3(CCB), 108\$ E1 005F5 BBC #2, -3(CCB), 107\$ 9A 005FA MOVZBL #128, R0 11 005FE BRB 109\$	125
		50	80 8F 08 07F C 8F 04 85 8F 50 01 36 50 CA 01 04	91 005EA 105\$: CMPB 97(CCB), #16 13 005EE BEQL 104\$ E1 005F0 106\$: BBC #1, -3(CCB), 108\$ E1 005F5 BBC #2, -3(CCB), 107\$ 9A 005FA MOVZBL #128, R0 11 005FE BRB 109\$ 3C 00600 107\$: MOVZWL #2044, R0 11 00605 BRB 109\$	
			07FC 8F 04 85 8F	3C 00600 107\$: MOVZWL #2044, R0 11 00605 BRB 109\$	125
		D2 AB	50	3C 00600 107\$: MOVZWL #2044, R0 11 00605 BRB 109\$ 9A 00607 108\$: MOVZBL #133, R0 B0 0060B 109\$: MOVW R0, -46(CCB) D0 0060F MOVL #1, V_DEFAULT_SIZE 11 00612 BRB 115\$	125 125 126 124 126
	00	007FFF 8F	36	DO 0060F MOVL #1, V_DEFAULT_SIZE 11 00612 BRB 115\$	124
	05		CA	D1 00614 110\$: CMPL R0, #32767 1A 0061B BGTRU 104\$ F1 0061D BBC #1 -3(CCB) 111\$	127
	0,	FD AB 51	04	E1 0061D BBC #1, -3(CCB), 111\$ D0 00622 MOVL #4, R1 11 00625 BRB 112\$	121
		51 51		DO 00627 111\$: MOVL #1, R1	
	05	FD AB	03	E1 0061D BBC #1, -3(CCB), 111\$  D0 00622 MOVL #4, R1  11 00625 BRB 112\$  D0 00627 111\$: MOVL #1, R1  C4 0062A 112\$: MULL2 R0, R1  E1 0062D BBC #3, -3(CCB), 113\$  D0 00632 MOVL #2, R0  11 00635 BRB 114\$	1277
		,,,	02	11 00635 BRB 114\$	
	52 00	007FFF 8F	50	D4 00637 113\$: CLRL R0 C1 00639 114\$: ADDL3 R0, R1, T D1 0063D CMPL T, #32767 1A 00644 BGTRU 104\$	1274
			A1	1A 00644 BGTRU 104\$ BO 00646 MOVW T46(CCB)	:
	ОС	D2 AB 56 66 10	FC AB	9E 0064A 115\$: MOVAB -4(CCB), R6 E0 0064F BBS #10 (R6) 116\$	1276 128
		10	61 AB	91 00652 CMPB 97(CCB), #16	1284
		20	61 AB	91 00658 CMPB 97(CCB), #32	1285
		7A AB	FC AB 61 AB 61 AB 28 A7 28 A7 28 A7	9A 00607 108\$: MOVZBL	1286 1296
		50	28 A7	13 00666 BEQL 119\$ 00 00668 MOVL 40(R7), R0	1299
			03	18 0066C BGEQ 118\$ CE 0066E MNEGL RO. RO	
GC BE	01	54 AB 15	50	DO 00671 118\$: MOVL RO, 84(CCB) FO 00675 INSV #1, #21 #1 a12(SP)	1300

OR\$\$OPEN_DEFLT FORTRA	N default ope	n				B 13 16-Sep-1 14-Sep-1	984 00:37 984 12:32	7:00 VAX-11 Bliss-32 V4.0-742 2:16 [FORRTL.SRC]FOROPENDE.B32;1	Page 55
			20	A7	D5 00		TSTL BEQL	44(R7) 121\$	; 1308
		50		16 A7	13 00 00 00	067E 0680	BEQL MOVL	121\$ 44(R7), R0	1311
				03	DO 00	0684 0686	BGEQ	44(R7), R0 120\$ RO. RO	
	0001000	0 8F		50	D1 00	0689 120\$:	CMPL	RO, RO RO, #65536 124\$	
00 BE	01 5	8 AB 03	30 40	A16730050777578700C00F1BB03F	D1 00 1E 00 B0 00 F0 00 D5 00 D5 00	067B 119\$: 067E 0680 0684 0686 0689 120\$: 0690 0692 0690 0690 06A0 06A2 06A7 122\$:	MOVL BGEQ MNEGL CMPL BGEQU MOVW INSV	RO, 88(CCB) 48(R7), #3, #1, a0(SP) 64(R7) 122\$ 64(R7), -28(CCB) -28(CCB), 124(CCB) 72(R7), RO 123\$ PO #65535	1313 1321 1329
	Ę 7	4 AB C AB 50	40 E4 48	A7 AB A7	DO 00 DO 00 DO 00	06A2 06A7 122\$:	BEQL MOVL MOVL MOVL	64(R7), -28(CCB) -28(CCB), 124(CCB) 72(R7), R0	1331 1341
	0000FFF	F 8F		30 50	13 00 01 00	06B0 06B2	BEQL CMPL	123\$ RO, #65535 124\$	: 1344 : 1347
	008 51	50	01FF 00000200	50 C0	9E 00	06AC 06B0 06B2 06B9 06C0 06C5 06CD 06D1 06DA	MOVL BEQL CMPL BGTRU MOVAB DIVL3 MOVAB MOVAB MOVAB MOVB CMPB BLEQU	124\$ RO, 128(CCB) 511(RO), RO #512, RO, R1	1349 1350
	3	7 AB 50 60 3F	0082 37	S1 CB AB	9E 00 9E 00 9E 00 9E 00	06CD 06D1 06D6	MOVB MOVAB MOVB	RO, 128(CCB) 511(RO), RO #512, RO, R1 R1, 55(CCB) 130(CCB), RO 55(CCB), (RO) (RO), #63 123\$ #63, (RO) 36(R7), RO	1351
				03	91 00 1B 00	OGDA OGDD	BLEQU	(RO), #63 123\$	1352
		60 50	24	A7 14	90 00	06E2 123\$:	MOVB MOVL	#65, (RO) 36(R7), RO	1354
	0000007	F 8F		50	13 00 01 00	06E8	MOVL BEQL CMPL BGTRU		1373
	3	6 AB		50	90 00	)6F1	MOAR	RO, #127 124\$ RO, 54(CCB) 125\$	1377
				20	DD 00	6F7 124\$:	BRB PUSHL		: 1380
			44	A7	05 00	6FC 125\$:	BRW TSTL	68(R7)	1387
	D	C AB 04	44	06 50 05 20 04 26 A7 0C A7 67	DO 00	701	MOVL BLBC	68(R7), -36(CCB)	1390 1392
	0	1 Å6	54	107 177 178 04E 58E 029 03E 01	DD 00 31 00 13 00 13 00 88 00 13 00 13 00 13 00 13 00 13 00 14 00 15 00 16 00 17 00 18 00	06E2 123\$: 06E6 06E8 06E7 06F7 06F7 06F7 124\$: 06F9 06FC 125\$: 0700 0700 0712 0710 0712 0717 0718 0718 0729 0729 0729 127\$:	MOVL BLBC BISB2 TSTL BEOL	214\$ 68(R7) 126\$ 68(R7), -36(CCB) (R7), 126\$ #16, 1(R6) 84(R7) 127\$ -58(CCB), LOG UNIT	1407
	5	C AE	C6	AB 04	32 00	712	CVTWL BISB2	-58(CCB), LOG_UNIT	1414
			20	AE SR	9F 00	71B	PUSHAB	LOG_UNIT	1416
	5	4 B7	10	AE 03	DD 00	720 723	BEQL CVTWL BISB2 PUSHAB PUSHL PUSHL CALLS BRB BBC	-58(CCB), LOG_UNIT #4, 1(R9) LOG_UNIT CCB 16(SP) #3, a84(R7) 130\$	1416
	ОС	66		29	11 00 E1 00	)727 )729 127 <b>\$</b> :	BRB BBC	130\$ #3, (R6), 128\$	1432
	0000000		08	AE 01	DD 00	)72D )730	CALLS	#3, (R6), 128\$ 8(SP) #1, SYS\$OPEN	1432
			08	OA.	11 00 DD 00	737 739 128\$:	BRB PUSHL	#1, SYS\$OPEN 129\$ 8(SP)	1436
	0000000	0G 00 52 0C		01 50 52 58	E1 00 FB 00 FB 00 FB 00 FB 00 FB 00 DD 00	7720 7730 7737 7739 128\$: 7730 7743 129\$: 7746 7749	MOVL BLBC PUSHL	#1, SYS\$CREATE RO, OPEN_STATUS OPEN_STATUS, 131\$ CCB	1442

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OR\$\$OPEN_DEFLT FORTRAN def	ault open					C 13 16-Sep-1 14-Sep-1	984 00:37 984 12:32	:00	VAX-11 Bliss-32 V4.0-742 [FORRTL.SRC]FOROPENDE.B32;1	Page 50
	0000000G	00 52		01	FB					;
00	00		68	50 AB 19	FB D0 D4 E1	00752 130\$: 00755 131\$:	CALLS MOVL CLRL	104	((B)	145
OD	00010619	BE 8F	40	AB 03	D1	0074B 00752 130\$: 00755 131\$: 00758 0075D 00765	BBC CMPL BFOI	76(C	SYS\$CONNECT OPEN_STATUS C(B) a12(SP), 132\$ CB), #67097	: 140
0E	FE	66 AB		08	88 E5	(111)/6/	BEQL BISB2 BBCC PUSHL MOVZBL	#8,	(R6) -2(CCB), 133\$ SP) SP), -(SP) FOR\$\$FREE_VM CCB)	146
		7E 00	20	BE	DD 9A	0076F 00772	MOVZBL	a20(	SP) SP), -(SP)	1469
	0000000G	00	0097	00 BE 02 CB 0D BE CB	FB 95	0076A 132\$: 0076F 00772 00776 0077D 133\$: 00781	TSTB	1510	FOR\$\$FREE_VM CCB)	147
	14	BE BE	0097	BE	90	00783 00788	MOVL	1343	SP), a20(SP) CCB), a28(SP)	1480
		DE	009F		11	0078E	MOVB BRB TSTB	1553		: 147
	14	DE		ÖB	13	00790 134\$: 00794	BEQL	159(	CD) 220/CD)	148
	14	BE BE 03	009F	CB OB BE CB 52	90 90	0079B	MOVL MOVB BLBC	159(	SP), a20(SP) CCB), a28(SP) _STATUS, 136\$	; 1480 ; 1480
			40	OOCB AB 50	51 D0	007A4	BRW	150\$	CB), RO	150
	00018292	50 8F	40	50	D1	007AR	MOVL CMPL BNEO	RO,	#98962	. 1300
					DD	007B4	BNEQ PUSHL BRB	#29 142\$		
	00018404	8F		1D 550 04 450 450 450 450	D1 12	00782 00784 00786 00788 137\$:	CMPL	RO.	#99524	
				ŽĀ ĀF	DD 11	00761	BNEQ PUSHL BRB	1425		
	0001852C	8F		50	D1	007C5 138\$:	CMPL BEQL	RO.	#99628	
	000185F4	8F		50 18	D1	007CE	CMPL BEQL	RO, 139\$	#99828	
	00018604	8F		1B 50 12	D1	007D7	CMPL BEQL	RO.	#100052	
	000186E4	8F		50	D1	007E0	CMPL BEQL	RO.	#100068	
	000186#C	8F		50	D1	007E9 007E0	CMPL	RO.	#100092	
				50 04 2B 79	DD	007F2 139\$:	BNEQ PUSHL BRB	149\$		
	000185FC	8F		50	D1	007F6 140\$:	CMPL BEQL	R0	<b>#99836</b>	
	00018624	8F		50	D1	007FF 00806	CMPL BEQL	141s	#99876	
	000186BC	8F		50	D1 12	007C3 007C5 007CC 007CE 007D5 007D7 007DE 007E0 007E7 007E9 007F0 007F4 007F6 007F6 007F6 00806 00808 00807 00813 141\$:	CMPL BNEQ PUSHL	R0,	#100028	
				31 5A	DD 11	00811 141\$: 00813 142\$: 00815 143\$:	BRB	1495		
	0001C00A	8F		4F	12	00815 1435: 0081C	CMPL BNEQ	148\$	#114698	
		53	50 08	50 AB AE 01	D0	00821	MOVL	80 (c	OLD_STS CB); OLD_STV	
	0000000G	00	08	01	DD FB	00825 00828	PUSHL	8(SP	SYS\$PARSE	

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FOR\$\$OPEN_DEFLT FORTRAN defau	ult open	D 13 16-Sep-1984 00:37:00 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:32:16 [FORRTL.SRC]FORCPENDE.B32;1	Page 57 (25)
26 05 50 0080 CB	4C AB 0080 C2 66 50 0080 C2 66 50 00 00 00 00 00 00 00 00 00 00 00 00	D E9 0082F	1576 1587 1594
50 61 AB  09  0055 0069 0060	50 50 50 61 Al 66 20 Al 66	155\$-152\$  A 11 00889  D 4 0088B 153\$: CLRL T  BRB 156\$  D 0 0088F 154\$: MOVL #16, T  BRB 156\$  D 0 00897 155\$: MOVL #32, T  O ED 00897 156\$: CMPZV #0, #8, 97(CCB), T  A 12 0089D BNEQ 159\$  BS 0089F 157\$: TSTW (R6)  B 15 008A1 BGEQ 158\$  CMPB 97(CCB), #32  B 10 008A3 CMPB 97(CCB), #32  B 10 008A7 BNEQ 159\$  B 91 008AB BNEQ 160\$  B 91 008BB BNEQ 160\$	1601 1594 1605 1614 1615 1623

OR\$\$OPEN_DEFLT FORTRAN defaul	t open				E 13 16-Sep-1984 00:3 14-Sep-1984 12:3	7:00 2:16	VAX-11 Bliss-32 V4.0-742 [FORRTL.SRC]FOROPENDE.B32;1	Page 58 (25)
	01	A6 01 63	FCEE 0C AB 06 04 57	31 8A 91	00805 163\$: BRW 00808 164\$: BICB2 0080C CMPB 008E0 BNEQ 008E2 BISB2	1015	1(R6) (B), #1	: 1693 : 1641
			AB 06	91	008DC CMPB 008E0 BNEQ	99(0)	(B), #1	: 1643
		A6	57	88	008E2 BISB2 008E6 BRB	1755	1 (R6)	: 1645
06 4F		66 69	04 08	E1 E0	008E8 165\$: BBC 008EC BBS	#4 #11 174\$	(R6), 166\$ (R9), 175\$	: 1648
49		69	48 0B	EO	008F0 008F2 166\$: BBS	#11.	(R9), 175\$	; 1650 ; 1651
49 45 41		69 66 66 02 63	04 08 08 09 04 8 09 48 30 35	E0 E1 E0	008D5 163\$: BRW 008D8 164\$: BICB2 008DC CMPB 008E0 BISB2 008E6 BRB 008E6 BBS 008EC BBS 008F0 BRB 008F2 166\$: BBS 008F6 BBS 008F6 CMPB 008F6 CMPB BBS 008F6 BBS 008F6 BBS 008F8 CMPB BBS 00902 BNEQ 00904 BISB2 BRB	#9. #4.	(R9), 175\$ (R6), 175\$ (R6), 175\$ (B), #2	1652
		A6	3B	12	00902 BNEQ	175\$	1(04)	1454
		01 63	35	11	00908 BRB 0090A 167\$: CMPB	175\$	1 (R6)	: 1654 : 1635
		02 63	AB 28 AB 29	11	0090E BRB 00910 168\$: CMPB	173\$	CB), #1	1660
		03 63	29	13	00910 168\$: CMPB 00914 BEQL 00916 CMPB	175\$	CB), #2	: 1004
		02 63	AB 1C AB	11 91	0090A 167\$: CMPB 0090E BRB 00910 168\$: CMPB 00914 BEQL 00916 CMPB 0091A BRB 0091C 169\$: CMPB 00920 BNEQ 00922 BBC 00926 BRB	173\$	CB), #3	1670
19		69	18	12	00920 BNEQ 00922 BBC	1745	(B), #2 (R9), 175%	10.0
		04 63	0B 12 AB	E1 11 91	00926 00928 170\$: CMPB	174\$ 99(C)	(R9), 175\$	1672 1676
		06 63	AB OA AB	91	00928 170\$: CMPB 0092C BRB 0092E 171\$: CMPB 00932 BRB	173\$ 99(C)	CB), #4 CB), #6	1682
		05 63	AB 04 AB 05 20 01E3	11	00932 00934 172\$: CMPB 00938 173\$: BEQL	173\$	CB), #5	: 1688
			05 2C	13 DD 31		#44		: 1690
		E4	01E3 AB 07	31 05 12	0093C 0093F 175\$: TSTL	214\$ -28((	CCB)	: 1700
	E4 /	AB 7C	07 AB 17	00	00942 BNEQ 00944 MOVL	176\$	CCB) -28(CCB)	1702
		70	AB 12	05	00949 0094B 176\$: TSTL	178\$	CCB)	1705
	70	50 E4		DO D1	0093F 175\$: TSTL 00942 BNEQ 00944 MOVL 00949 BRB 0094B 176\$: TSTL 0094E BEQL 00950 MOVL 00954 CMPL 00958 BLEQ	-28((	C(B), R0 124(C(B)	
			AB 50 04 AB 50	15	00950 MOVL 00954 CMPL 00958 BLEQ 0095A MOVL	1775	C(R) RO	
11	0087	50 7C AB CB CB		DO DO EO B5	0095E 177\$: MOVL 00962 178\$: BBS	RO.	CCB), RO -28(CCB) 135(CCB), 179\$ 132(CCB), 179\$	1724
11 0B	0087 0084	ČB 7A	02 AB	EŎ B5	00968 BBS 0096E TSTW	122(	32(CCB), 179\$	1724 1725 1727
	7A	AB 0080	04 02 AB 06 CB 55			179\$	C(B), 122(C(B)	
05		10	55 0A	BO E8 E0	00979 179\$: BLBS 0097C BBS	V DEF	CCB), 122(CCB) FAULT_SIZE, 181\$ (R6), 180\$ , #16	1729 1731
		66 10	0A 64 07	91 12	00980 CMPB 00983 BNEQ 00985 180\$: CMPW	(R4)	, #16	1732
		AB D2	AB 54	B1	00985 180\$: CMPW 0098A BNEQ	-40(	(B), 122(((B)	1735
		52 D2	AB	9Ē	0098C 181\$: MOVAB	-46((	C(B), R2	: 1740

FOR\$\$OPEN_DEFLT FORTRAN default open 1-098		F 13 16-Sep-1984 00:37:00 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:32:16 [FORRTL.SRC]FOROPENDE.B32;1	Page 59 (25)
05	66	0A E0 00990 BBS #10, (R6), 182\$ 64 91 00994 CMPB (R4), #16	; 1737 ; 1738
	62 7A	06 12 00997 BNEQ 183\$ AB BO 00999 182\$: MOVW 122(CCB), (R2) 1A 11 00990 BRB 186\$	1740
	50 50 7A	1A 11 0099D BRB 186\$ 62 3C 0099F 183\$: MOVZWL (R2), R0	1742
		AB B1 009A2 CMPW 122(CCB), R0 04 1B 009A6 BLEQU 184\$	
	50 7A 50 D2	62 3C 0099F 183\$: MOVZWL (R2), R0 AB B1 009A2 (MPW 122(CCB), R0 04 1B 009A6 BLEQU 184\$ AB 3C 009A8 MOVZWL 122(CCB), R0 AD B1 009AC 184\$: CMPW XAB BLOCK+10, R0 04 1B 009B0 BLEQU 185\$ AD 3C 009B2 MOVZWL XAB_BLOCK+10, R0	
	50 D2 62 20	AD 3C 00982 MOVZWL XAB_BLOCK+10, RO 50 B0 00986 1858: MOVW RO, (R2) 64 91 00989 1868: CMPB (R4), #32	
		50 B0 009B6 185\$: MOVW R0, (R2) 64 91 009B9 186\$: CMPB (R4), #32 29 12 009BC BNEQ 190\$	1744
25	66 53 7A	0A       E0       009BE       BBS       #10, (R6), 190\$         AB       3C       009C2       MOVZWL       122(CCB), R3         10       12       009C6       BNEQ       187\$         55       E9       009CB       BLBC       V_DEFAULT_SIZE, 190\$         CB       9A       009CB       MOVZBL       130(CCB), R0         8F       A5       009D0       MULW3       #512, R0, (R2)         0F       11       009D6       BRB       190\$         55       58       009D8       187\$       180\$	1751
	10 50 50 0082 50 0200	10 12 009C6 BNEQ 187\$ 55 E9 009C8 BLBC V_DEFAULT_SIZE, 190\$ CB 9A 009CB MOVZBL 130(CCB), RO 8F A5 009D0 MULW3 #512, RO, (R2) OF 11 009D6 BRB 190\$ 55 E8 009D8 187\$: BLBS V_DEFAULT_SIZE, 189\$ CMPW (R2), R3 04 1B 009DE BLEQU 189\$ 25 DD 009E0 188\$: PUSHL #37	1754 1756
62	50 0082 50 0200	8F AS 009D0 MULW3 #512, RO, (R2) 0F 11 009D6 BRB 190\$	1750
	09 53	55 E8 009D8 187\$: BLBS V_DEFAULT_SIZE, 189\$ 62 B1 009DB CMPW (R2), R3	1764
		55 E8 009D8 187\$: BLBS V_DEFAULT_SIZE, 189\$ 62 B1 009DB (MPW (R2), R3 04 1B 009DE BLEQU 189\$ 25 DD 009E0 188\$: PUSHL #37 63 11 009E2 BRB 198\$	1767
	62	53 B0 009E4 189\$: MOVW R3, (R2)	1769 1780
	50 18	64 91 009E7 190\$: CMPB (R4), #32 62 12 009EA BNEQ 200\$ AE DO 009EC MOVL 24(SP), KEY_DEFN	:
	53 02	06 13 009F0 BEQL 191\$ A0 32 009F2 CYTWL 2(KEY_DEFN), KEY_COUNT 02 11 009F6 BRB 192\$	1793
	52 58 CC	53 D4 009F8 191\$: CLRL KEY_COUNT 01 D0 009FA 192\$: MOVL #1, XAB_STATUS AD D0 009FD MOVL XAB_BLOCK+4, KEY_XAB 58 D5 00A01 193\$: TSTL KEY_XAB	; 1799 ; 1800 ; 1802
		58 D5 00A01 193\$: TSTL KEY XAB 3D 13 00A03 BEQL 197\$ 53 D5 00A05 TSTL KEY COUNT	1802
	15	53 D5 00A05 TSTL KEY COUNT 39 15 00A07 BLEQ 197\$ 68 91 00A09 CMPB (KEY XAB), #21	1805
4E	A8 1E	53 D4 009F8 191\$: CLRL KEY_COUNT 01 D0 009FA 192\$: MOVL	: 1809
40	A8 2E	07 12 00A13 BNEQ 194\$ A8 91 00A15 CMPB 46(KEY_XAB), 77(KEY_XAB)	: 1810
13	52 A8 40	03 13 00A1A BEQL 195\$ 31 DO 00A1C 194\$: MOVL #49, XAB_STATUS A8 91 00A1F 195\$: CMPB 76(KEY_XAB), 19(KEY_XAB)	1812
		03 13 00A24 BEQL 196\$ 31 DO 00A26 MOVL #49, XAB_STATUS	
	52 04	A8 91 00A1F 1958: CMPB 76(KEY_XAB), 19(KEY_XAB) 03 13 00A24 BEQL 196\$ 31 D0 00A26 MOVL #49, XAB_STATUS A8 D0 00A29 1968: MOVL 4(KEY_XAB), NEXT 58 DD 00A2D PUSHL KEY_XAB 8F 9A 00A2F MOVZBL #80, -(SP) 02 FB 00A33 CALLS #2, FOR\$\$FREE_VM 54 D0 00A3A MOVL NEXT, KEY_XAB 03 C2 00A3D SUBL2 #3, KEY_COUNT	1816 1823 1824
00000000G	7E 50 00 58 53	8F 9A 00A2F MOVZBL #807 - (SP) 02 FB 00A33 CALLS #2, FOR\$\$FREE_VM	
	53	54 DO ODAŠA MOVL NEXT, KEY XAB OŠ CZ ODAŠD SUBLZ MŠ, KEY_COUNT	: 1825 : 1827

F

Page 60 (25)	:00 VAX-11 Bliss-32 V4.0-742 :16 [FORRTL.SRC]FOROPENDE.B32;1	984 00:3 984 12:3	5 13 5-Sep-1 4-Sep-1	16				lt open	defa
; 1802 ; 1839 ; 1841	193\$ XAB_STATUS, 200\$ XAB_STATUS 214\$  #32, 1(R6) V_DÉFAULT_SIZE, 202\$ #2, 135(CCB), 202\$ 128(CCB) 202\$ 128(CCB), NEW_RECL #11, (R6), 20T\$ #4, NEW_RECL, -46(CCB) 202\$ NEW_RECL, -46(CCB) 202\$ NEW_RECL, -46(CCB) 202(CCB), 203\$ ORIG_RAT, 20(SP) V_DEFAULT_SIZE, 204\$ -76(CCB), R0 206\$ 206\$ 206\$ 206\$ 206\$ 206\$ 206\$ 206	BRB BLBS PUSHL	197\$:	00A40 00A42	BF 11 52 E8 52 DD		09		
	2145	BRW	1985:	00A45 00A47	00D8 31			01	
: 1856 : 1864	V_DEFAULT_SIZE, 202\$	BRW BICB2 BLBC BBS	198\$: 199\$: 200\$:	00A4E	20 8A 55 E9		A6 28 CB CB	01	
: 1866 : 1867	#4, 135(CTB), 202\$ #2, 132(CCB), 202\$	BBS BBS		00A51	04 E0		CB	0087 0084	22
: 1868	128(CCB)	TSTW		00A4A 00A4E 00A51 00A57 00A5D 00A61	CB B5	0080			
: 1873	128(CCB), NEW_RECL	BEQL		COAUU	CB BO	0080	50		
: 1874 : 1876	#11, (R6), 20T\$	BBC SUBW2		89800 0086C	CB B0 OB E1 04 A2		66		03
: 1877	NEW RECE, -46(CCB)	BBC SUBW2 CMPW BGEQU	201\$:	00A6F	50 B1 04 1E		AB	D2	
: 1879	NEW_RECL, -46(CCB)	MUAM		00A6F 00A73 00A75 00A79	04 1E 50 B0		AB 05	D2	
; 1888 ; 1890	202(CCB), 203\$ ORIG RAT, @O(SP)	BLBC MOVB	202\$:	00A79	AE 90	00CA 28	BE	00	
1897	V_DEFAULT_SIZE, 204\$	BLBC MOVB BLBS MOVZWL	203\$:	00A7E 00A83 00A86	55 E8	D2	06 50		
:	206\$	BRB	20/6	A8A00	AB 3C OE 11 BE E9 8F 9A				
1898	#81, RO	BRB BLBC MOVZBL	2043:	00A8C 00A90	BE E9	00 51	06 50		
	480 PO	BRB MOVZBL	2055:	00A94 00A96	04 11	50	50		
: 1897 : 1905	RO, -44(CCB)	MOVW	205 <b>\$</b> : 206 <b>\$</b> :	00A9A 00A9E 00AA2	50 BO		AB 04	D4	
; 1907	RO, -44(CCB) a0(SP), 207\$ #128, (R9) #1, a0(SP), 208\$	BLBC BISB2		SAAOO	BE E9 8F 88 01 E1	00 80	69		
: 1908 : 1910	#1, a0(SP), 208\$ #64, (R9)	BBC BISB2		00AA6 00AAB	01 E1 8F 88 02 E1	40	BE 69	00	04
; 1911 ; 1913	#2, a0(SP), 209\$	BBC BISB2 MOVZWL	208\$:	00AAF 00AAF 00AB4	02 E1 01 88		BE A9	00 01	04
: 1920	-46(CCB), -(SP)	MOVZWL	209\$:	00AB8	AB 3C	D2	7É		
	RO, -20(CCB)	MOVL		OOAC3	01 FB 50 D0		AB	0000000G	
1935	@28(SP), -(SP) #1. FOR\$\$@@T VM	MOVZBL		00AC7	BE 9A 01 FB	10	AB 7E 00 57	00000006	
1074	RO, T	MOVL MOVZBL CALLS MOVL MOVZBL MOVL MOVC3		00AD2	01 FB 50 D0 BE 9A 50 D0 BE D0 57 D0 57 D0 88 9A 06 12	10			
1936	a20(SP), R8	MOVL		POAD9	BE DO	1¢	50 58 68 BE BE CB AB 50		
1937	RO, (R8), (T) T. a20(SP)	MOVC3		00ADD 00AE1	50 28 57 D0		68 BE	14	67
1938	T, a36(SP)	MOVL		OOAES	57 DO		BE	24	
: 1940	a28(SP), 159(CCB)	MOVB		OOAED	57 DO 57 DO BE 90 01 88	10	CB	24 20 009F FE	
1941	97(CCB), RO	MON SBT		OOAF7	AB 9A	61	50 50	11	
1937 1938 1939 1940 1941 1948 1951	210\$ #1 =60(CCB)	MOVL MOVL MOVL MOVB BISB2 MOVZBL BNEQ MOVB		OOAFB	AB 9A 06 12 01 90		AB	C4	
	215\$	BRB	2100	00B01	01 90 27 11				
1954	#12. a0(SP), 208\$ #64, (R9) #2. a0(SP), 209\$ #1. 1(R9) -46(CCB), -(SP) #1. FOR\$\$GET_VM R0, -20(CCB) a28(SP), -(SP) #1. FOR\$\$GET_VM R0, T a28(SP), R0 a20(SP), R8 R0, (R8), (T) T, a20(SP) T, a36(SP) T, a32(SP) a28(SP), 159(CCB) #1, -2(CCB) 97(CCB), R0 210\$ #1, -60(CCB) 215\$ R0, #16 211\$ #2, -60(CCB) 215\$ R0, #32 213\$ #11, (R6), 212\$	BRB CMPB BNEQ MOVB	210\$:	00ABC 00AC3 00AC3 00AC3 00AD5 00AD5 00AD5 00AE5 00AE5 00AF5 00AFD 00B03 00B06 00B06 00B11 00B13	27 11 50 91 06 12 02 90 1C 11 50 91 0D 12 0B E1		10		
1955	#2 -60(CCB) 215\$	MOVB BRB		00B08	02 90 10 11		AB	C4	
1957	RO #32	BRB CMPB BNEQ	211\$:	OOBOE	50 91 00 12 08 E1		20		
: 1960	#11, (R6), 212\$	BBC		00B13	OB E1		66		03

FOR\$SOPEN\_DEFLT FORTRAN

	FOR\$\$OPEN_DEFLT FORTRAN default open 1-098		H 13 16-Sep-1984 00:37:00 VAX-11 Bliss-32 V4.0-742 14-Sep-1984 12:32:16 [FORRTL.SRC]FOROPENDE.B32;1	Page 61 (25)
	00000000G  24 20 90 44 3A 30 0087 00000000G C8 CC  04	00 01 AB EC AB AB D2 AB AB EC AB 69 06 66 07 66 07 000000000000000000000000000000000	## 174\$  03 90 00B17 00B17 00B17 00B17 00B18 212\$: MOVB #3, -60(CCB)  BRB ## 174\$  BR	1962 1948 1966 1973 1974 1975 1982 1983 1984 1985 1986 1991 2003 2010 2011 2012 2013 2016 2017 2018 2019 2013 2022 2030 2030 2036 2039
1				

PSECT SUMMARY

Name

Bytes

Attributes

\_FOR\$CODE

3119 NOVEC, NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

FOR\$\$OPEN\_DEFLT FORTRAN default open

1 13
16-Sep-1984 00:37:00 VAX-11 Bliss-32 V4.0-742
14-Sep-1984 12:32:16 [FORRTL.SRCJFOROPENDE.B32;1 (25)

Library Statistics

File

Total Loaded Percent Mapped Time

127

## COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/NOTRACE/LIS=LIS\$: FOROPENDE/OBJ=OBJ\$: FOROPENDE MSRC\$: FOROPENDE/UPDATE=(ENH\$: FOROPENDE

39

581 52 8 00:01.1 00:00.6 00:00.1

: Size: 3012 code + 107 data bytes : Run Time: 01:26.6 : Elapsed Time: 03:27.2 : Lines/CPU Min: 1414 : Lexemes/CPU-Min: 15974 : Memory Used: 1167 pages : Compilation Complete

\$255\$DUA28:[SYSLIB]STARLET.L32;1 \$255\$DUA28:[FORRTL.OBJ]FORLIB.L32;1 \$255\$DUA28:[FORRTL.OBJ]RTLLIB.L32;1 0182 AH-BT13A-SE

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